## FIGURE 1

ER_alpha_LBD	307	ALSETADOMVSALIDAEPPILYSEYDPTRPESEASMMGLLTNEADRELVHMINWAKRVPG
ER_beta_LBD	308	LDALSPEOLVLTLLEAEPPHVLISR-PSAPFTEASMMMSLTKLADKELVHMISWAKKIPG
ER_alpha_LBD	367	FVDLTLHDQVHLLECAWLEILMIGLVWRSMEHPVKLLFAPNLLLDRNQGKCVEGNVBIFD
ER_beta_LBD	367	FVELSLFDQVRLLESCWMEVLMMGLMWRSIDHPGKLIFAPDLVLDRDEGKCVEGILBIFD
ER_alpha_LBD	427	MLLATSSRERMMNLOGEEFVCLKSIILLNSGVYTFLSSTLKSLEEKDHIHRVLDKITDTL
ER_beta_LBD	427	MLLATTSRERELKLOHKEYLCVKAMILLNSSMYPLVTATQDADSSRKLAH-LLNAVTDAL
ER_alpha_LBD	487	IHLMAKAGLTLQQQHQRLAQLLLILSHIRHMSNKGMEHLYSMKCKNVVPLYDLLLEMLDA
ER_beta_LBD	486	VWVIAKSGISSQQQSMRLANLLMLLSHVRHASNKGMEHLLNMKCKNVVPVYDLLLEMLNA
ER_alpha_LBD	547	HRI
ER_beta_LBD	546	HVL

53.486 P212121 85.207 107.065 90.00 90.00 90.00 Unit Cell: Space Group:

•	250	Do-			_			
	atom type	Res.	x	У	Z			
MOTA	1 N	LEU A 311	0.971	-5.129	37.101	1.00 55.91		N
ATOM ATOM	2 CA 3 C	LEU A 311 LEU A 311	1.453 0.411	-4.204 -3.151	36.024 35.699	1.00 52.91 1.00 52.76		C
ATOM	4 0	LEU A 311	0.662	-2.238	34.911	1.00 51.43		ŏ
ATOM	5 CB	LEU A 311	1.933	-4.990	34.806	1.00 50.10		č
ATOM	6 CG	LEU A 311	3.007	-6.031	35.117	1.00 51.90		C
MOTA MOTA		LEU A 311 LEU A 311	3.070 4.361	-7.107	34.063	1.00 55.02		C
ATOM	9 N	SER A 312	-0.779	-5.396 -3.304	35.366 36.277	1.00 50.07 1.00 48.17		C N
ATOM	10 CA	SER A 312	-1.856	-2.323	36.154	1.00 45.76		C
MOTA	11 C	SER A 312	-1.257	-1.024	36.704	1.00 42.54		С
MOTA ATOM	12 O 13 CB	SER A 312	-0.515	-1.023	37.696	1.00 40.55		0
ATOM	13 CB 14 OG	SER A 312 SER A 312	-3.096 -3.636	-2.816 -1.866	36.876 37.778	1.00 42.53 1.00 44.17		C O
MOTA	15 N	PRO A 313	-1.543	0.085	36.037	1.00 39.31		И
MOTA	16 CA	PRO A 313	-0.943	1.365	36.364	1.00 37.98		С
ATOM	17 C	PRO A 313	-0.958	1.765	37.812	1.00 38.63		С
ATOM ATOM	18 O 19 CB	PRO A 313 PRO A 313	0.140 -1.582	1.992 2.348	38.375 35.397	1.00 38.34 1.00 35.68		0
ATOM	20 CG	PRO A 313	-2.035	1.509	34.261	1.00 35.68		C
ATOM	21 CD	PRO A 313	-2.427	0.172	34.851	1.00 37.34		č
MOTA	22 N	GLU A 314	-2.111	1.866	38.474	1.00 30.67		N
MOTA MOTA	23 CA 24 C	GLU A 314 GLU A 314	-2.089	2.235	39.882	1.00 34.57		C
ATOM	24 C 25 O	GLU A 314	-1.249 -0.591	1.270 1.744	40.711 41.639	1.00 30.99 1.00 32.77		C
MOTA	26 CB	GLU A 314	-3.517	2.267	40.462	1.00 38.24		Č
MOTA	27 CG	GLU A 314	-3.503	2.626	41.948	1.00 44.67		C
ATOM	28 CD	GLU A 314	-4.887	3.065	42.419	1.00 50.70		C
ATOM ATOM		GLU A 314 GLU A 314	-5.884 -4.907	2.794 3.693	41.711 43.496	1.00 48.91 1.00 54.40		0
ATOM	31 N	GLN A 315	-1.337	-0.035	40.456	1.00 31.00		N
MOTA	32 CA	GLN A 315	-0.578	-0.989	41.250	1.00 37.11		С
ATOM	33 C	GLN A 315	0.937	-0.913	41.010	1.00 36.55		C
ATOM ATOM	34 O 35 CB	GLN A 315 GLN A 315	1.708 -1.014	-0.982 -2.441	41.951 40.956	1.00 33.12 1.00 41.80		0 C
ATOM	36 CG	GLN A 315	-2.386	-2.674	41.588	1.00 51.16	ć.	Č
ATOM	37 CD	GLN A 315	-3.004	-4.012	41.339	1.00 56.60		С
ATOM ATOM	38 OE1 39 NE2	GLN A 315 GLN A 315	-4.222	-4.172	41.485	1.00 60.96		0
ATOM	40 N	LEU A 316	-2.210 1.294	-5.021 -0.818	40.973 39.727	1.00 61.33 1.00 34.75		N N
ATOM	41 CA	LEU A 316	2.730	-0.721	39.378	1.00 32.58		C
ATOM	42 C	LEU A 316	3.327	0.491	40.058	1.00 29.66		С
ATOM ATOM	43 O 44 CB	LEU A 316 LEU A 316	4.414	0.401	40.654	1.00 29.13		0
ATOM	45 CG	LEU A 316	2.863 4.273	-0.742 -0.604	37.857 37.276	1.00 32.85 1.00 36.22		C
MOTA		LEU A 316	5.272	-1.606	37.841	1.00 36.76		Č
MOTA		LEU A 316	4.173	-0.851	35.774	1.00 32.29		С
ATOM ATOM	48 N 49 CA	VAL A 317 VAL A 317	2.642	1.640 2.817	40.063	1.00 29.47		N
ATOM	50 C	VAL A 317	3.131 3.263	2.588	40.754 42.253	1.00 26.29 1.00 33.46		C
ATOM	51 0	VAL A 317	4.239	2.996	42.865	1.00 28.60		ŏ
MOTA	52 CB	VAL A 317	2.278	4.055	40.488	1.00 27.01		C
MOTA MOTA		VAL A 317 VAL A 317	2.703 2.278	5.285 4.300	41.242 38.964	1.00 30.45		C
ATOM	55 N	LEU A 318	2.236	1.951	42.850	1.00 25.96 1.00 30.90		C N
ATOM	56 CA	LEU A 318	2.340	1.635	44.267	1.00 32.73	•	C
MOTA	57 C	LEU A 318	3.532	0.696	44.534	1.00 25.10		C
MOTA MOTA	58 O 59 CB	LEU A 318 LEU A 318	4.120 1.051	0.933 1.062	45.581	1.00 28.81 1.00 33.80		0
ATOM	60 CG	LEU A 318	0.983	0.754	44.813 46.309	1.00 33.80	•	C
ATOM	61 CD1	LEU A 318	1.574	1.849	47.191	1.00 35.41		С
ATOM		LEU A 318	-0.488	0.535	46.684	1.00 40.42		С
ATOM ATOM	63 N 64 CA	THR A 319 THR A 319	3.845 4.970	-0.268	43.727	1.00 26.05		N C
ATOM	65 C	THR A 319 THR A 319	6.274	-1.153 -0.340	43.868 43.734	1.00 33.78 1.00 32.10		C
ATOM	66 O	THR A 319	7.212	-0.552	44.485	1.00 26.69		0
ATOM	67 CB	THR A 319	5.011	-2.308	42.863	1.00 32.57		C
MOTA MOTA		THR A 319 THR A 319	3.894 6,273	-3.206 -3.163	43.075 43.004	1.00 41.02 1.00 34.97		0
ATOM	70 N	LEU A 320	6.295	0.635	43.004	1.00 34.97		И
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		O I CB I CG I CD1 I		329 329 329 329				

MOTA MOTA	225 226	N CA	ALA A 340 ALA A 340	40.740 40.665		46.831	1.00 30.70 1.00 27.77	
MOTA MOTA	227 228	C 0	ALA A 340 ALA A 340	39.502 38.927		47.748 47.552	1.00 25.62 1.00 27.51	
MOTA MOTA	229 230	CB N	ALA A 340 SER A 341	41.931 39.226		47.601 48.720	1.00 29.10 1.00 26.84	
MOTA	231	CA	SER A 341	38.196	14.096	49.708	1.00 29.79	
ATOM ATOM	232 233	C O	SER A 341 SER A 341	36.803 35.920	14.291 13.514	49.100 49.464	1.00 28.43 1.00 26.98	
MOTA	234 235	CB	SER A 341 SER A 341 SER A 341	38.420	14.894	51.001	1.00 26.89	
ATOM ATOM	236	OG N	MET A 342 MET A 342	38.028 36.644	15.260	48.188	1.00 30.59 1.00 26.89	
ATOM ATOM	237 238	CA C	MET A 342	25 145	14 100	47.551 46.629	1.00 23.72 1.00 28.77	
ATOM ATOM	239 240	O CB	MET A 342 MET A 342	34.075 35.126	13.509	46.708	1.00 26.04	
MOTA	241	CG	MET A 342	33.749	16.704		1.00 28.37	
ATOM ATOM	242 243	SD CE	MET A 342 MET A 342	33.464 33.156	18.319 19.429	45.306 46.631	1.00 28.56 1.00 33.24	
ATOM ATOM	244 245	N CA	MET A 343	36.180 36.015	13.703 12.491	45.885	1.00 25.81	
ATOM	246	С	MET A 343	35.803 34.998		45.963	1.00 28.46	
ATOM ATOM	247 248	O CB	MET A 343 MET A 343	34.998 37.130	10.391 12.226	45.669 44.064	1.00 24.46 1.00 18.08	
ATOM ATOM	249 250	CG SD	MET A 343	37.130 37.256 35.660		42.943 41.976	1.00 22.77 1.00 24.43	
MOTA	251	CE	MET A 343	35.660 35.546	11.509	41.690	1.00 24.64	
ATOM ATOM	252 253	N. CA	MET A 344 MET A 344	36.401 36.150	11.204 10.057		1.00 23.55 1.00 21.04	
ATOM ATOM	25 <b>4</b> 255	C O	MET A 342 MET A 343 MET A 343 MET A 343 MET A 343 MET A 343 MET A 343 MET A 344 MET A 344 MET A 344 MET A 344	34.727 34.109	10.018 8.962		1.00 22.36 1.00 22.72	
MOTA	256	CB	MET A 344	37.106	10.117	49.236	1.00 28.70	
ATOM ATOM	257 258	CG SD	MET A 344 MET A 344	36.782 38.017		51.632	1.00 39.38 1.00 46.12	
ATOM ATOM	259 260	CE N	MET A 344 SER A 345	39.321 34.189			1.00 47.00 1.00 22.84	
ATOM	261 262	CA	SER A 345	32.839 31.804	11.285	49.427		
ATOM ATOM	263	0	SER A 345 SER A 345	30.891	10.084	48.632	1.00 21.09	
MOTA MOTA	264 265	CB OG	SER A 345 SER A 345	32.520 33.175	12.718 12.967		1.00 26.69 1.00 26.93	
ATOM ATOM	266 267	N CA	LEU A 346 LEU A 346	32.043 31.063	11.312 10.950	47.136	1.00 20.73 1.00 21.78	
MOTA	268	С	LEU A 346	31.140	9.484	45.733	1.00 19.80	
ATOM ATOM	269 270	O CB	LEU A 346 LEU A 346	30.092 31.316	8.886 11.808		1.00 20.97 1.00 20.76	
ATOM ATOM	271 272	CG CD1	LEU A 346 LEU A 346	31.072 31.454	13.318 14.028		1.00 24.44 1.00 27.57	
MOTA	273	CD2	LEU A 346	29.603	13.613	45.260	1.00 24.42 1.00 18.51	
ATOM ATOM	274 275	N CA	THR A 347 THR A 347	32.338 32.414	8.877 7.450	45.732 45.373	1.00 21.98	
ATOM ATOM	276 277	С 0	THR A 347 THR A 347	31.983 31.368	6.573 5.529	46.524 46.275	1.00 24.51 1.00 23.87	
ATOM ATOM	278 279	CB	THR A 347 THR A 347	33.796 34.738	7.089 7.391	44.809 45.842	1.00 25.39 1.00 21.99	
ATOM	280	CG2	THR A 347	34.123	7.889	43.565	1.00 25.92	
ATOM ATOM	281 282	N CA	LYS A 348 LYS A 348	32.185 31.650	6.947 6.172	47.799 48.913	1.00 24.27 1.00 22.75	
ATOM ATOM	283 284	C	LYS A 348 LYS A 348	30.115 29.438	6.236 5.260	48.952 49.278	1.00 20.19 1.00 20.54	
ATOM ATOM	285 286	CB CG	LYS A 348 LYS A 348	32.116 31.525	6.807 6.139	50.258 51.484	1.00 30.65 1.00 38.85	
MOTA	287	CD	LYS A 348	32.566	5.870	52.566	1.00 51.23	
ATOM ATOM	288 289	CE NZ	LYS A 348 LYS A 348	32.062 33.152	4.767 4.400	53.515 54.471	1.00 53.45 1.00 61.29	
ATOM ATOM	290 291	N CA	LEU A 349 LEU A 349	29.568 28.098	7.436 7.606	48.668 48.692	1.00 21.35 1.00 20.62	
MOTA	292	С	LEU A 349	27.531	6.728	47.554	1.00 20.65	
ATOM ATOM	293 294	O. CB	LEU A 349 LEU A 349	26.554 27.658	6.036 9.049	47.757 48.459	1.00 18.64 1.00 20.47	
ATOM ATOM	295 296	CG CD1	LEU A 349 LEU A 349	26.159 25.303	9.320 8.888	48.202 49.386	1.00 24.04 1.00 23.46	
ATOM ATOM	297 298		LEU A 349 ALA A 350	25.830 28.198	10.812	48.019 46.386	1.00 22.26 1.00 19.00	
MOTA	299	CA	ALA A 350	27.723	5.962	45.252	1.00 21.07	
ATOM ATOM	300 301	о О	ALA A 350 ALA A 350	27.733 26.784	4.475 3.733	45.613 45.385	1.00 19.81 1.00 18.86	

ATOM	302	СВ	ALA A	350	28.558	6.162	43.988	1.00 20.94
ATOM	303	N	ASP A	351	28.807	4.047	46.335	1.00 23.60
ATOM ATOM	304 305	CA C	ASP A		28.879 27.698	2.611 2.216	46.709 47.569	1.00 23.15 1.00 21.31
ATOM	306	Õ	ASP A		26.994	1.228	47.345	1.00 22.54
ATOM	307	CB	ASP A		30.222	2.317	47.405	1.00 24.66
ATOM ATOM	308 309	CG OD1	ASP A		30.369 30.751	0.831 0.016	47.750 46.881	1.00 24.20 1.00 22.60
ATOM	310	OD2	ASP A	351	30.083	0.368	48.854	1.00 27.97
ATOM ATOM	311 312	N CA	LYS A		27.319 26.231	3.080 2.812	48.505 49.429	1.00 18.89
ATOM	313	C	LYS A		24.908	2.730	49.429	1.00 25.83 1.00 23.96
ATOM	314	0	LYS A		24.066	1.863	48.897	1.00 23.98
ATOM ATOM	315 316	CB CG	LYS A LYS A		26.165 27.383	3.884 3.864	50.514 51.460	1.00 29.24 1.00 37.75
MOTA	317	CD	LYS A	352	27.337	5.094	52.366	1.00 41.30
ATOM ATOM	318 319	CE NZ	LYS A		28.428 28.383	5.141 6.407	53.406 54.191	1.00 47.71 1.00 57.64
ATOM	320	N	GLU A		24.728	3.733	47.785	1.00 18.65
ATOM ATOM	321 322	CA C	GLU A GLU A		23.473 23.422	3.732 2.552	47.012	1.00 19.52 1.00 19.13
ATOM	323	o	GLU A		22.313	2.097	46.054 45.724	1.00 19.13
ATOM	324	CB	GLU A		23.330	5.038	46.198	1.00 22.06
ATOM ATOM	325 326	CG CD	GLU A GLU A		23.214 22.893	6.231 7.495	47.159 46.368	1.00 21.74 1.00 24.03
ATOM	327	OE1	GLU A	353	21.699	7.700	46.076	1.00 23.53
ATOM ATOM	328 329	OE2 N	GLU A LEU A		23.754 24.577	8.285 2.155	46.001 45.504	1.00 23.99 1.00 16.94
ATOM	330	CA	LEU A		24.568	1.032	44.534	1.00 10.94
ATOM	331	C	LEU A		24.138	-0.261	45.217	1.00 20.96
MOTA MOTA	332 333	O CB	LEU A LEU A		23.455 25.922	-1.036 0.856	44.517 43.824	1.00 21.13 1.00 19.93
MOTA	334	CG	LEU A	354	26.275	1.921	42.787	1.00 17.91
ATOM ATOM	335 336		LEU A		27.778 25.567	1.969 1.655	42.528 41.478	1.00 18.30 1.00 22.25
ATOM	337	N	VAL A	35 <b>5</b>	24.454	-0.450	46.503	1.00 24.62
ATOM ATOM	338 339	CA C	VAL A		23.931 22.415	-1.679 -1.611	47.168 47.189	1.00 24.78 1.00 22.47
ATOM	340	o.	VAL A		21.745	-2.574	46.806	1.00 22.47
ATOM	341	CB	VAL A		24.375	-1.768	48.649	1.00 27.79
ATOM ATOM	342 343		VAL A		23.758 25.902	-2.998 -1.767	49.293 48.678	1.00 28.19 1.00 29.07
ATOM	344	N	HIS A	356	21.817	-0.473	47.556	1.00 22.33
ATOM ATOM	345 346	CA C	HIS A		20.366 19.747	-0.318 -0.390	47.555 46.156	1.00 23.50 1.00 25.98
ATOM	347	0	HIS A	356	18.603	-0.823	45.985	1.00 20.85
ATOM ATOM	348 349	CB CG	HIS A		19.973 20.417	1.059 1.150	48.154 49.594	1.00 25.64 1.00 30.50
ATOM	350	ND1	HIS A	356	20.380	0.032	50.404	1.00 36.00
ATOM ATOM	351 352		HIS A		20.901 20.836	2.131 0.334	50.348 51.603	1.00 33.71 1.00 38.33
ATOM	353		HIS A		21.149	1.608	51.614	1.00 35.34
ATOM ATOM	354 355	N	MET A		20.475	0.096	45.141	1.00 22.11
ATOM	356	CA C	MET A		19.922 19.671	0.085 -1.353	43.760 43.318	1.00 23.05 1.00 22.29
MOTA	357	0	MET A		18.676	-1.604	42.647	1.00 22.13
ATOM ATOM	358 359	CB CG	MET A		20.869 20.200	0.761 1.079	42.761 41.381	1.00 20.67 1.00 17.48
MOTA	360	SD	MET A	357	21.487	1.628	40.215	1.00 18.70
ATOM ATOM	361 362	CE N	MET A		21.975 20.563	3.188 -2.306	40.968 43.693	1.00 21.32 1.00 19.95
MOTA	363	CA	ILE A	358	20.278	-3.705	43.318	1.00 23.22
MOTA MOTA	364 365	C	ILE A		18.954 18.170	-4.180 -4.859	43.932 43.261	1.00 26.07 1.00 26.53
ATOM	366	СВ	ILE A		21.371	-4.633	43.891	1.00 24.88
MOTA	367		ILE A		22.731	-4.358	43.262	1.00 31.03
ATOM ATOM	368 369		ILE A		21.074 22.836	-6.125 -4.417	43.773 41.769	1.00 33.68 1.00 32.41
ATOM	370	N	SER A	359	18.749	-3.920	45.215	1.00 23.68
ATOM ATOM	371 372	CA C	SER A		17.524 16.307	-4.297 -3.645	45.906 45.281	1.00 27.31 1.00 26.81
MOTA	373	0	SER A	359	15.259	-4.304	45.149	1.00 24.44
ATOM ATOM	374 375	CB OG	SER A		17.526 18.585	-3.949 -4.728	47.422 47.964	1.00 26.99 1.00 38.36
MOTA	376	N	TRP A	360	16.440	-2.402	44.872	1.00 20.43
ATOM ATOM	377 378	CA C	TRP A		15.336 14.948	-1.654 -2.256	44.241 42.910	1.00 20.64 1.00 21.97
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ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	33333333333333333333333344444444444444	CD2 CE1 CE2	TRP A A 360 TRP A A 360 TRP A A 360 TRP A A 360 TRP A A A A A A A A A A A A A A A A A A A		13.758 14.759 13.759 13.759 14.455 15.377 15.377 16.435 17.357	-8.190 -8.725 -8.686 -9.500 -7.787 -7.698 -9.009 -9.403 -6.572 -6.279 -5.390 -5.134 -6.598	42.43.0441 44.099227 42.4984 40.99227 40.09586 4	1.00 23.85 1.00 22.58 1.00 24.32 1.00 21.14 1.00 22.74 1.00 22.86 1.00 16.31 1.00 21.78 1.00 21.78 1.00 21.78 1.00 21.78 1.00 21.78 1.00 21.78 1.00 21.78 1.00 21.79 1.00 21.79 1.00 21.79 1.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 21.00 31.00 1.00 32.50 1.00 32.50
ATOM ATOM ATOM	433 434 435	CA C O	PHE A 367 PHE A 367 PHE A 367		12.806 13.529 14.385	-7.698 -9.009 -9.403	36.677 37.030 36.245	1.00 34.62 1.00 27.50 1.00 29.96
MOTA	437	CG	PHE A 367		14.805	-6.279	37.261	1.00 32.90
ATOM	439	CD2	PHE A 367	-	15.815	-6.869	37.988	1.00 30.54
ATOM	441	CE2	PHE A 367		17.152	-6.598	37.722	1.00 27.58
MOTA MOTA	442 443	CZ N	PHE A 367 VAL A 368		17.476 13.172	-5.704 -9.684	36.716 38.100	1.00 26.84 1.00 32.49
ATOM ATOM	444 445	CA C	VAL A 368		13.883 13.578	-10.923 -12.051	38.447 37.478	1.00 32.31 1.00 36.24
ATOM ATOM	446 447	O CB	VAL A 368 VAL A 368		14.321		37.437 39.901	1.00 33.42 1.00 35.22
MOTA	448	CG1	VAL A 368		14.393	-10.440	40.889	1.00 35.30 1.00 39.26
ATOM ATOM	449 450	CG2 N	GLU A 369	1	12.554	-11.506 -11.897	36.643	1.00 41.05
MOTA MOTA	451 452	CA C	GLU A 369 GLU A 369			-12.899 -12.766	35.627 34.378	1.00 43.35 1.00 43.93
ATOM ATOM	453 454	O CB	GLU A 369 GLU A 369	l	13.077	-13.642 -12.789	33.500 35.299	1.00 43.51 1.00 44.22
ATOM	454	CG	GLU A 369			-13.359	36.425	1.00 53.77

				7				
ATOM	456	CD	GLU A 3			-13.179	36.203	1.00 58.72
ATOM	457		GLU A 3			-12.735 -13.460	35.104 37.111	1.00 61.35
ATOM ATOM	458 459	N N	GLU A 3 LEU A 3			-13.460	34.229	1.00 63.00 1.00 42.33
ATOM	460	CA	LEU A 3			-11.430	33.093	1.00 42.33
ATOM	461	C	LEU A 3			-12.375	33.255	1.00 33.24
ATOM	462	ŏ	LEU A 3			-12.782	34.396	1.00 43.46
ATOM	463	СB	LEU A 3		15.169	-9.992	33.024	1.00 38.90
ATOM	464	CG	LEU A 3		14.069	-8.932	32.855	1.00 36.26
ATOM	465	CD1	LEU A 3	370	14.661	-7.526	32.880	1.00 38.31
ATOM	466	CD2	LEU A 3		13.335	-9.131	31.534	1.00 41.34
ATOM	467	N	SER A 3			-12.715	32.176	1.00 41.52
ATOM	468	CA	SER A 3			-13.594	32.332	1.00 39.96
ATOM	469	C	SER A 3			-12.862	33.148	1.00 43.04
ATOM	470 471	O CB	SER A 3 SER A 3			-11.620 -13.899	33.243 30.955	1.00 39.51
ATOM ATOM	472	OG	SER A 3			-12.649	30.419	1.00 43.12 1.00 38.32
ATOM	473	N	LEU A 3			-13.612	33.675	1.00 30.32
ATOM	474	CA	LEU A 3			-13.028	34.452	1.00 32.28
ATOM	475	C	LEU A 3			-12.049	33.611	1.00 34.87
ATOM	476	0	LEU A 3	72		-11.009	34.047	1.00 33.17
MOTA	477	CB	LEU A 3			-14.147	34.974	1.00 38.05
MOTA	478	CG	LEU A 3			-13.858	35.916	1.00 39.95
MOTA	479		LEU A 3			-13.117	37.149	1.00 44.82
ATOM	480 481		LEU A 3 PHE A 3			-15.187 -12.417	36.387 32.333	1.00 42.80 1.00 31.42
ATOM ATOM	482	N CA	PHE A 3			-11.511	31.483	1.00 31.42
ATOM	483	C	PHE A 3			-10.220	31.250	1.00 31.42
MOTA	484	ŏ	PHE A 3		22.455	-9.193	31.101	1.00 29.66
ATOM	485	СB	PHE A 3			-12.143	30.138	1.00 36.67
ATOM	486	CG	PHE A 3	73	23.950	-13.236	30.303	1.00 43.12
ATOM	487		PHE A 3			-13.358	31.467	1.00 45.48
MOTA	488		PHE A 3			-14.146	29.273	1.00 46.57
ATOM	489		PHE A 3			-14.378	31.619	1.00 52.03
ATOM	490	CE2	PHE A 3			-15.162	29.416	1.00 49.07
ATOM ATOM	491 492	CZ N	PHE A 3 ASP A 3			-15.266 -10.304	30.584 31.152	1.00 49.72 1.00 26.27
ATOM	493	CA	ASP A 3		19.704	-9.061	30.891	1.00 20.27
ATOM	494	C	ASP A 3		19.705	-8.212	32.177	1.00 33.83
ATOM	495	ō	ASP A 3		19.921	-6.991	32.125	1.00 28.99,
ATOM	496	CB	ASP A 3		18.300	-9.313	30.398	1.00 32.07
MOTA	497	CG	ASP A 3		18.189	-9.669	28.906	1.00 41.32
ATOM	498		ASP A 3		19.188	-9.555	28.161	1.00 40.18
ATOM	499		ASP A 3			-10.088	28.467 33.347	1.00 39.38 1.00 32.60
MOTA MOTA	500 501	N CA	GLN A 3 GLN A 3		19.591 19.608	-8.865 -8.071	34.583	1.00 32.60
ATOM	502	C	GLN A 3		20.916	-7.333	34.726	1.00 30.67
ATOM	503	ŏ	GLN A 3		20.870	-6.138	35.028	1.00 25.21
ATOM	504	CB	GLN A 3		19.352		35.868	1.00 32.73
MOTA	505	CG	GLN A 3		17.995	-9.549	35.848	1.00 26.43
MOTA	506	CD	GLN A 3			-10.429	37.077	1.00 37.35
ATOM	507		GLN A 3			-10.067	38.176	1.00 37.23
MOTA MOTA	508 509	NE2 N	GLN A 3 VAL A 3		17.123 22.037	-11.571 -8.009	36.895 34.515	1.00 32.94 1.00 26.87
ATOM	510	CA	VAL A 3		23.342	-7.387	34.620	1.00 29.51
ATOM	511	C	VAL A 3		23.603	-6.347	33.546	1.00 28.83
ATOM	512	ō	VAL A 3		24.160	-5.246	33.774	1.00 27.40
ATOM	513	CB	VAL A 3		24.406	-8.503	34.672	1.00 32.02
MOTA	514		VAL A 3		25.813	-7.968	34.697	1.00 26.56
ATOM	515		VAL A 3		24.140	-9.362	35.927	1.00 35.02
ATOM	516	N	ARG A 3		23.206	-6.612	32.296 31.270	1.00 25.73
MOTA MOTA	517 518	CA C	ARG A 3		23.455 22.663	-5.585 -4.309	31.270	1.00 27.53 1.00 23.06
ATOM	519	o	ARG A 3		23.199	-3.217	31.349	1.00 25.17
ATOM	520	СВ	ARG A 3		23.134	-6.117	29.895	1.00 34.14
ATOM	521	CG	ARG A 3		21.735	-5.910	29.433	1.00 40.47
ATOM	522	CD	ARG A 3	77	21.572	-5.937	27.920	1.00 48.13
MOTA	523	NE	ARG A 3		20.220	-6.455	27.686	1.00 45.66
ATOM	524	CZ	ARG A 3		19.401	-5.929	26.796	1.00 53.53
ATOM	525		ARG A 3		18.208	-6.486	26.676	1.00 51.20
ATOM	526 527		ARG A 3 LEU A 3		19.793 21.418	-4.873 -4.443	26.093 31.991	1.00 55.56 1.00 22.82
MOTA MOTA	527	N CA	LEU A 3		20.599	-3.260	32.361	1.00 22.82
ATOM	529	C	LEU A 3		21.273	-2.443	33.483	1.00 20.13
MOTA	530	ō	LEU A 3		21.502	-1.230	33.334	1.00 24.01
ATOM	531	CB	LEU A 3		19.172	-3.599	32.766	1.00 21.48
MOTA	532	CG	LEU A 3	78	18.322	-4.303	31.691	1.00 26.61

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ATOM 563 SG CYS A 382	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	53345678901234567890123456789012	CD2 N CA C O CB CCD1 CD2 N CA C O CB CCD OE1 OE2 N CA C O CB CCD OE1 OE2 N CA C O CB CCD OE1	GLU A SER A SER A SER A SER A CYS A CYS A CYS A	378 379 379 379 379 379 380 380 380 380 380 380 381 381 381 381 381 382 382	16.974 18.156 21.623 22.258 23.589 23.889 22.463 21.188 21.460 20.694 24.415 25.711 26.467 27.815 28.719 29.079 24.559 24.391 23.369 24.427 23.369 22.968 22.649 22.034	-4.747 -3.326 -3.098 -2.379 -1.746 -0.596 -3.314 -3.651 -4.962 -2.570 -2.461 -1.967 -3.046 -2.632 -2.197 -2.992 -1.015 -0.697 -1.718 -1.718 -1.718 -1.718 -1.718	32.179 30.516 34.582 35.669 36.893 37.669 38.405 38.539 34.173 33.416 32.866 34.012 34.923 33.949 32.421 31.596 32.759 33.789 35.596	1.00 25.18 1.00 26.44 1.00 23.21 1.00 23.26 1.00 24.40 1.00 21.75 1.00 20.84 1.00 24.61 1.00 27.69 1.00 25.96 1.00 25.95 1.00 25.95 1.00 27.21 1.00 35.58 1.00 43.85 1.00 50.26 1.00 50.26 1.00 20.93 1.00 22.96 1.00 22.96 1.00 25.94 1.00 26.35 1.00 41.12 1.00 19.49 1.00 20.72 1.00 20.55 1.00 20.55 1.00 20.55
ATOM 569 CG TRP A 383 26.081 2.031 37.564 1.00 20.65 ATOM 570 CD1 TRP A 383 26.642 1.181 36.616 1.00 18.50 ATOM 571 CD2 TRP A 383 27.125 2.928 37.985 1.00 18.96 ATOM 572 NE1 TRP A 383 27.979 1.540 36.470 1.00 19.72 ATOM 573 CE2 TRP A 383 28.293 2.585 37.289 1.00 22.08 ATOM 574 CE3 TRP A 383 27.160 4.002 38.915 1.00 18.46 ATOM 575 CZ2 TRP A 383 29.484 3.321 37.430 1.00 22.38 ATOM 576 CZ3 TRP A 383 29.484 3.321 37.430 1.00 22.38 ATOM 576 CZ3 TRP A 383 29.484 3.321 37.430 1.00 22.38 ATOM 577 CH2 TRP A 383 29.484 3.321 37.430 1.00 22.44 ATOM 577 CH2 TRP A 383 29.483 4.358 38.328 1.00 23.23 ATOM 578 N MET A 384 24.955 5.020 36.711 1.00 14.97 ATOM 579 CA MET A 384 24.955 5.020 36.711 1.00 14.97 ATOM 580 C MET A 384 24.024 7.290 36.691 1.00 16.51 ATOM 581 O MET A 384 24.024 7.290 36.691 1.00 16.51 ATOM 583 CG MET A 384 26.519 6.912 36.267 1.00 20.28 ATOM 583 CG MET A 384 26.519 6.912 36.267 1.00 20.28 ATOM 583 CG MET A 384 26.519 6.912 36.267 1.00 19.34 ATOM 585 CE MET A 384 26.749 8.399 36.546 1.00 19.34 ATOM 585 CE MET A 384 29.061 8.231 38.081 1.00 19.18 ATOM 586 N GLU A 385 23.271 6.910 35.638 1.00 14.74 ATOM 587 CA GLU A 385 23.271 6.910 35.638 1.00 14.74 ATOM 589 O GLU A 385 20.996 7.593 36.411 1.00 15.30 ATOM 589 O GLU A 385 20.996 7.593 36.411 1.00 15.06 ATOM 590 CB GLU A 385 20.996 7.593 36.411 1.00 15.06 ATOM 590 CB GLU A 385 20.996 7.593 36.411 1.00 15.06 ATOM 590 CB GLU A 385 20.996 7.593 36.411 1.00 15.06 ATOM 590 CB GLU A 385 20.996 7.593 36.411 1.00 15.06 ATOM 590 CB GLU A 385 20.996 7.593 36.411 1.00 15.06 ATOM 590 CB GLU A 385 20.996 7.593 36.411 1.00 15.06 ATOM 590 CB GLU A 385 20.996 7.593 36.411 1.00 15.06 ATOM 590 CB GLU A 385 20.996 7.593 36.411 1.00 15.06 ATOM 590 CB GLU A 385 20.996 7.593 36.411 1.00 15.06 ATOM 590 CB GLU A 385 20.996 7.593 36.411 1.00 15.06 ATOM 590 CB GLU A 385 20.996 7.593 36.411 1.00 15.50 ATOM 590 CB GLU A 385 20.996 7.593 36.411 1.00 15.50 ATOM 590 CB UAL A 386 19.470 7.747 39.926 1.00 16.51 ATOM 590 CB UAL A 386 19.470 7.747 39.926 1.00 16.51 ATOM 590 CB UAL A 386 19.470	ATOM ATOM ATOM ATOM	564 565 566 567	N CA C O	TRP A TRP A TRP A	382 383 383 383 383	23.692 23.714 24.047 23.395	2.615 2.980 4.435 5.063	35.831 37.265 37.510 38.383	1.00 16.62 1.00 17.45 1.00 17.92 1.00 17.80
ATOM 576 CZ3 TRP A 383	ATOM ATOM ATOM ATOM ATOM	569 570 571 572 573 574	CG CD1 CD2 NE1 CE2 CE3	TRP A TRP A TRP A TRP A TRP A TRP A	383 383 383 383 383 383	26.081 26.642 27.125 27.979 28.293 27.160	2.031 1.181 2.928 1.540 2.585 4.002	37.564 36.616 37.985 36.470 37.289 38.915	1.00 20.65 1.00 18.50 1.00 18.96 1.00 19.72 1.00 22.08
ATOM 582 CB MET A 384 26.519 6.912 36.267 1.00 20.28 ATOM 583 CG MET A 384 26.749 8.399 36.546 1.00 19.66 ATOM 584 SD MET A 384 27.340 8.718 38.232 1.00 19.34 ATOM 585 CE MET A 384 29.061 8.231 38.081 1.00 19.18 ATOM 586 N GLU A 385 23.271 6.910 35.638 1.00 14.74 ATOM 587 CA GLU A 385 22.051 7.674 35.297 1.00 15.30 ATOM 588 C GLU A 385 20.996 7.593 36.411 1.00 15.06 ATOM 589 O GLU A 385 20.308 8.573 36.682 1.00 16.82 ATOM 590 CB GLU A 385 21.445 7.258 33.915 1.00 18.49 ATOM 591 CG GLU A 385 20.565 8.409 33.347 1.00 21.96 ATOM 592 CD GLU A 385 20.565 8.409 33.347 1.00 21.96 ATOM 593 OE1 GLU A 385 20.470 7.169 31.267 1.00 21.88 ATOM 594 OE2 GLU A 385 19.946 8.069 32.000 1.00 29.86 ATOM 595 N VAL A 386 20.470 7.169 31.267 1.00 21.88 ATOM 595 N VAL A 386 20.846 6.400 36.972 1.00 16.06 ATOM 596 CA VAL A 386 20.846 6.400 36.972 1.00 16.06 ATOM 597 C VAL A 386 20.846 6.400 36.972 1.00 16.51 ATOM 598 O VAL A 386 19.838 6.276 38.070 1.00 15.50 ATOM 599 CB VAL A 386 19.470 7.747 39.926 1.00 16.51 ATOM 599 CB VAL A 386 19.470 7.747 39.926 1.00 17.88 ATOM 599 CB VAL A 386 19.470 7.747 39.926 1.00 17.57 ATOM 600 CG1 VAL A 386 19.719 4.793 38.408 1.00 17.57 ATOM 601 CG2 VAL A 386 19.005 4.159 37.192 1.00 20.15 ATOM 602 N LEU A 387 21.573 6.938 39.608 1.00 14.70	ATOM ATOM ATOM ATOM ATOM	576 577 578 579 580	CZ3 CH2 N CA C	TRP A TRP A MET A MET A MET A	383 383 384 384 384	28.309 29.483 24.955 25.254 24.024	4.725 4.358 5.020 6.450 7.290	39.045 38.328 36.711 37.001 36.691	1.00 22.44 1.00 23.23 1.00 14.97 1.00 15.11 1.00 16.51
ATOM 589 O GLU A 385 20.308 8.573 36.682 1.00 16.82 ATOM 590 CB GLU A 385 21.445 7.258 33.915 1.00 18.49 ATOM 591 CG GLU A 385 20.565 8.409 33.347 1.00 21.96 ATOM 592 CD GLU A 385 19.946 8.069 32.000 1.00 29.86 ATOM 593 OE1 GLU A 385 20.470 7.169 31.267 1.00 21.88 ATOM 594 OE2 GLU A 385 18.913 8.711 31.676 1.00 30.28 ATOM 595 N VAL A 386 20.846 6.400 36.972 1.00 16.06 ATOM 596 CA VAL A 386 19.838 6.276 38.070 1.00 15.50 ATOM 597 C VAL A 386 20.265 7.075 39.250 1.00 16.51 ATOM 598 O VAL A 386 19.470 7.747 39.926 1.00 17.88 ATOM 599 CB VAL A 386 19.470 7.747 39.926 1.00 17.88 ATOM 599 CB VAL A 386 19.470 7.747 39.926 1.00 17.88 ATOM 599 CB VAL A 386 19.470 7.747 39.926 1.00 17.57 ATOM 600 CG1 VAL A 386 19.005 4.59 39.647 1.00 17.57 ATOM 601 CG2 VAL A 386 19.005 4.159 37.192 1.00 20.15 ATOM 602 N LEU A 387 21.573 6.938 39.608 1.00 14.70	ATOM ATOM ATOM ATOM ATOM ATOM	582 583 584 585 586 587	CB CG SD CE N CA	MET A MET A MET A GLU A GLU A	384 384 384 385 385	26.519 26.749 27.340 29.061 23.271 22.051	6.912 8.399 8.718 8.231 6.910 7.674	36.267 36.546 38.232 38.081 35.638 35.297	1.00 20.28 1.00 19.66 1.00 19.34 1.00 19.18 1.00 14.74 1.00 15.30
ATOM 596 CA VAL A 386 19.838 6.276 38.070 1.00 15.50 ATOM 597 C VAL A 386 20.265 7.075 39.250 1.00 16.51 ATOM 598 O VAL A 386 19.470 7.747 39.926 1.00 17.88 ATOM 599 CB VAL A 386 19.719 4.793 38.408 1.00 15.13 ATOM 600 CG1 VAL A 386 18.872 4.559 39.647 1.00 17.57 ATOM 601 CG2 VAL A 386 19.005 4.159 37.192 1.00 20.15 ATOM 602 N LEU A 387 21.573 6.938 39.608 1.00 14.70	ATOM ATOM ATOM ATOM ATOM ATOM	589 590 591 592 593 594	O CB CG CD OE1 OE2	GLU A GLU A GLU A GLU A GLU A	385 385 385 385 385 385	20.308 21.445 20.565 19.946 20.470 18.913	8.573 7.258 8.409 8.069 7.169 8.711	36.682 33.915 33.347 32.000 31.267 31.676	1.00 16.82 1.00 18.49 1.00 21.96 1.00 29.86 1.00 21.88 1.00 30.28
	ATOM ATOM ATOM ATOM ATOM ATOM ATOM	596 597 598 599 600 601 602	CA C O CB CG1 CG2 N	VAL A VAL A VAL A VAL A VAL A LEU A	386 386 386 386 386 386 386 387	19.838 20.265 19.470 19.719 18.872 19.005 21.573	6.276 7.075 7.747 4.793 4.559 4.159 6.938	38.070 39.250 39.926 38.408 39.647 37.192 39.608	1.00 15.50 1.00 16.51 1.00 17.88 1.00 15.13 1.00 17.57 1.00 20.15 1.00 14.70

ATOM	687	_	A C D	A 397	14.46	52 23.046	46.363	1 00 1		_
ATOM	688	C		A 397	14.48		47.336	1.00		C
ATOM	689	СВ		A 397	12.42		46.827	1.00		č
MOTA	690	CG	ASP 2	A 397	11.16		46.262	1.00		Č
MOTA	691		ASP A		10.71		45.238	1.00		0
ATOM ATOM	692 693		ASP A	A 397 A 398	10.63 15.69		46.799 45.876	1.00 4		0
ATOM	694	N CA		A 398	16.86		46.427	1.00 2	26.91 31 70	С
ATOM	695	C		A 398	17.77		45.405	1.00 2		C
ATOM	696	0		A 398	18.93		45.195		31.30	Ö
ATOM	697	CB		A 398	17.62		47.331	1.00		C
ATOM	698	CG		A 398	16.87		48.488	1.00 3		Ċ.
ATOM ATOM	699 700		HIS A		16.30 16.57		48.504 49.696	1.00 3		N C
ATOM	701		HIS A		15.69		49.661	1.00		c
ATOM	702		HIS A		15.85		50.409	1.00		· N
ATOM	703	N		A 399	17.34		44.713	1.00		N
MOTA	704	CA		A 399 A 399	18.14		43.752	1.00 2		C
ATOM ATOM	705 706	C		A 399	19.54 19.76		44.223 45.365	1.00 3		C 0
ATOM	707	СВ		A 399	17.43		43.481	1.00		č
ATOM	708	CG		A 399	16.27		44.391	1.00 3		C
MOTA	709	CD		A 399	16.03		44.891	1.00		C
MOTA	710	N		A 400	20.50		43.336	1.00 2		N
ATOM ATOM	711 712	CA C		A 400 A 400	21.92 22.59		43.561 44.418	1.00 2		C
ATOM	713	ŏ		A 400	23.78		44.704	1.00 2		Õ
ATOM	714	N		A 401	21.86	0 24.150	44.863	1.00 2	25.56	N
ATOM	715	CA		A 401	22.47		45.672	1.00 2		C
ATOM	716	C		A 401	22.28		45.064	1.00 2		C
ATOM ATOM	717 718	O CB		A 401 A 401	21.29 21.63		44.391 46.955	1.00 2		O C
ATOM	719	CG		A 401	21.84		48.203	1.00 4		č
ATOM	720	CD		A 401	22.11		48.045	1.00 4		С
ATOM	721	CE		A 401			49.389	1.00 4		C
ATOM	722	NZ		A 401	20.88		49.784			N
ATOM ATOM	723 72 <b>4</b>	N CA		A 402 A 402	23.26 23.11		45.374 44.987	1.00 2	22.31	<b>и</b>
ATOM	725	C		A 402	22.95		46.275		21.03	Č
ATOM	726	0	LEU A	A 402	23.91	.4 18.555	47.078	1.00 1	L9.86	0
MOTA	727	CB		A 402	24.28		44.112	1.00 1		C
ATOM	728	CG	LEU A	A 402	24.20		42.679	1.00 2	20.75	C
ATOM ATOM	729 730		LEU A		25.48 23.01		41.954 41.840	1.00 2		C
ATOM	731	N		A 403	21.76		46.414	1.00 1		N
ATOM	732	CA	ILE A	A 403	21.46	17.280	47.619	1.00 1		С
ATOM	733	C		A 403	21.91		47.407		20.88	C
ATOM	734 735	O		A 403	21.11 20.00		47.151 48.022	1.00 2		, C
ATOM ATOM	736	CB CG1	ILE A		19.41		48.148	1.00 2		, C
ATOM	737		ILE A		19.78	16.535	49.355	1.00 2		С
ATOM	738		ILE A		20.23		48.883	1.00		С
ATOM	739	N		404	23.21		47.603	1.00 2		N
ATOM ATOM	740 741	CA C		A 404 A 404	23.74 23.13		47.395 48.383	1.00 2		C
ATOM	742	ŏ		A 404	22.77		48.095	1.00 2		ŏ
ATOM	743	CB		A 404	25.28	4 14.338	47.413	1.00 2	21.32	C
ATOM	744	CG		A 404	25.84		46.053	1.00 2		C
ATOM ATOM	745 746		PHE A		26.19 26.00		45.825 45.024	1.00 2		C
ATOM	747		PHE A		26.70		44.603	1.00 2		c
ATOM	748		PHE A		26.47		43.802	1.00 2		С
ATOM	749	cz	PHE A	A 404	26.87		43.573	1.00 2		C
ATOM	750	N		4 405	23.05		49.614	1.00 2		И
ATOM	751 752	CA		4 405	22.40		50.715 51.676	1.00 2		C
ATOM ATOM	752 753	C		A 405 A 405	21.90 22.38		51.720	1.00 2		C
ATOM	754	CB		A 405	23.33		51.417	1.00 2		С
ATOM	755	N	PRO A	A 406	20.98	6 13.724	52.568	1.00 3	32.52	N
ATOM	756	CA		4 406	20.42		53.539	1.00 3		C
ATOM	757 758	C		A 406 A 406	21.45 21.22		54.322 54.615	1.00 3		C 0
ATOM ATOM	758 759	O CB		4 406	19.46		54.362	1.00 3		C
ATOM	760	CG		406	19.07		53.424	1.00 3		С
MOTA	761	CD	PRO A	A 406	20.32	12.409	52.623	1.00 3	35.62	C
ATOM	762	N		407	22.58	14.836	54.642	1.00 3	36.25	N C
ATOM	763	CA	ASP A	A 407	23.66	15.532	55.325	1.00	, , , , 4	

ATOM	764	C	ASP A 4		24.942	15.713	54.485	1.00 35.68
ATOM ATOM	765 766	O CB	ASP A 4		26.067 23.951	15.939 14.837	54.972 56.658	1.00 35.16 1.00 45.22
ATOM	767	CG	ASP A 4		24.683	15.756	57.615	1.00 51.47
ATOM	768	OD1			24.752	16.972	57.337	1.00 53.42
ATOM	769	OD2			25.206 24.780	15.264 15.623	58.640 53.155	1.00 56.11 1.00 31.91
MOTA MOTA	770 771	N CA	LEU A 4 LEU A 4		25.846	15.823	52.181	1.00 31.91
ATOM	772	C	LEU A 4		25.291	16.787	51.117	1.00 33.12
MOTA	773	0	LEU A 4	08	24.960	16.416	49.990	1.00 29.33
ATOM	774	CB	LEU A 4		26.393	14.590	51.522 50.592	1.00 31.43
ATOM ATOM	775 776	CG CD1	LEU A 4		27.607 28.719	14.813 15.544	51.340	1.00 33.95 1.00 38.24
ATOM	777	CD2			28.093	13.493	50.021	1.00 35.82
ATOM	778	N	VAL A 4	09	25.111	18.046	51.500	1.00 28.59
MOTA	779	ÇA	VAL A 4		24.521	19.044	50.608 50.021	1.00 29.53 1.00 35.26
MOTA MOTA	780 781	C O	VAL A 4		25.595 26.304	19.925 20.606	50.769	1.00 35.26
ATOM	782	СВ	VAL A 4		23.498	19.864	51.412	1.00 32.96
MOTA	783		VAL A 4		22.890	20.993	50.603	1.00 31.95
MOTA	784		VAL A 4 LEU A 4		22.430 25.821	18.950 19.922	51.974 48.706	1.00 30.22 1.00 27.77
MOTA MOTA	785 786	N CA	LEU A 4		26.842	20.773	48.118	1.00 27.77
ATOM	787	C	LEU A 4		26.298	22.004	47.435	1.00 36.39
MOTA	788	0	LEU A 4		25.299	21.967	46.711	1.00 30.29
MOTA	789 790	CB	LEU A 4 LEU A 4		27.768 28.396	20.016 18.710	47.156 47.612	1.00 32.95 1.00 36.56
ATOM ATOM	790	CG CD1	LEU A 4		29.505	18.242	46.683	1.00 34.98
ATOM	792	CD2			28.902	18.749	49.045	1.00 41.39
MOTA	793	N	ASP A 4		26.938	23.164	47.686	1.00 33.11
ATOM	794	CA	ASP A 4		26.539 27.299	24.350 24.255	46.933 45.600	1.00 34.05 1.00 29.65
ATOM ATOM	795 796	C O	ASP A 4		27.299	23.727	45.543	1.00 29.03
ATOM	797	СВ	ASP A 4		26.884	25.698	47.590	1.00 41.04
ATOM	798	CG	ASP A 4		25.865	26.016	48.674	1.00 49.46
ATOM	799	OD1			25.986 24.919	25.474 26.778	49.792 48.410	1.00 56.56 1.00 55.40
ATOM ATOM	800 801	OD2 N	ASP A 4 ARG A 4		26.745	24.819	44.558	1.00 33.40
ATOM	802	CA	ARG A 4		27.345	24.827	43.227	1.00 29.21
ATOM	803	C	ARG A 4		28.814	25.148	43.185	1.00 32.15
ATOM	804 805	O CB	ARG A 4		29.634 26.552	24.412 25.852	42.643 42.363	1.00 31.27 1.00 32.70
ATOM ATOM	806	CG	ARG A 4		27.039	25.878	40.919	1.00 36.94
ATOM	807	CD	ARG A 4	12	28.132	26.912	40.680	1.00 42.09
ATOM	808	NE	ARG A 4		28.493	26.982	39.276	1.00 40.17
ATOM ATOM	809 810	CZ	ARG A 4		29.542 29.784	27.671 27.654	38.812 37.497	1.00 45.07 1.00 38.97
ATOM	811		ARG A 4		30.303	28.339	39.683	1.00 37.08
ATOM	812		ASP A 4	13	29.233	26.262		1.00 34.93
ATOM	813	CA	ASP A 4		30.622 31.593	26.701 25.749	43.828	1.00 40.84 1.00 36.09
ATOM ATOM	814 815	CO	ASP A 4		32.796	25.792	44.469 44.201	1.00 30.03
ATOM	816	ČВ	ASP A 4		30.740	28.092	44.465	1.00 46.18
ATOM	817	CG	ASP A 4		30.199	29.197	43.580	1.00 51.56
ATOM ATOM	818 819		ASP A 4 ASP A 4		30.090 29.872	29.017 30.278	42.345 44.130	1.00 54.10 1.00 53.78
ATOM	820	N N	GLU A 4		31.171	24.776	45.271	1.00 36.43
ATOM	821	CA	GLU A 4	14	32.096	23.800	45.838	1.00 33.20
ATOM	822	C	GLU A 4		32.628	22.891	44.742	1.00 35.36
ATOM ATOM	823 824	O CB	GLU A 4 GLU A 4		33.644 31.491	22.235 23.040	44.932 46.993	1.00 40.36 1.00 38.12
ATOM	825	CG	GLU A 4		30.691	24.000	47.892	1.00 41.60
MOTA	826	CD	GLU A 4	14	30.377	23.195	49.151	1.00 42.56
ATOM	827	OE1			29.182	23.012 22.790	49.394 49.793	1.00 39.90 1.00 44.66
ATOM ATOM	828 829	OE2 N	GLU A 4 GLY A 4		31.360 32.085	22.790	49.793	1.00 44.66
ATOM	830	ÇA	GLY A 4		32.610	22.195	42.395	1.00 35.34
ATOM	831	С	GLY A 4	15	34.002	22.657	41.995	1.00 36.70
ATOM	832	O N	GLY A 4 LYS A 4		34.711 34.448	22.005 23.846	41.201 42.442	1.00 32.74 1.00 35.48
ATOM ATOM	833 834	N CA	LYS A 4		35.776	24.340	42.108	1.00 35.45
ATOM	835	C	LYS A 4	16	36.869	23.525	42.794	1.00 37.60
MOTA	836	0	LYS A 4		38.023	23.520	42.370	1.00 35.22
ATOM ATOM	837 838	CB CG	LYS A 4 LYS A 4		35.874 34.861	25.827 26.691	42.441 41.670	1.00 38.97 1.00 47.16
ATOM	839	CD	LYS A 4		34.985	28.160	42.065	1.00 52.82
ATOM	840	CE	LYS A 4		33.891	29.049	41.509	1.00 54.67

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	841 842 843 844 845 846 847	NZ N CA C O CB SG N	LYS A CYS A	417 417 417 417 417 417	34.253 36.549 37.456 38.026 39.158 36.732 35.889 37.259	29.728 22.700 21.852 20.726 20.251 21.280 22.509 20.203	40.235 43.777 44.507 43.662 43.845 45.758 46.822 42.698	1.00 61.17 1.00 37.57 1.00 39.44 1.00 39.18 1.00 40.72 1.00 41.41 1.00 49.13 1.00 36.06
ATOM ATOM	849 850	CA C	VAL A		37.639 37.823	19.067 19.509	41.878 40.426	1.00 31.96 1.00 29.98
ATOM ATOM	851 852	O CB	VAL A	418	36.963 36.607	20.136 17.916	39.835	1.00 29.54
ATOM	853	CG1	VAL A	418	37.056	16.721	41.954 $41.120$	1.00 24.72 1.00 28.34
ATOM ATOM	854 855	CG2 N	VAL A GLU A		36.491 38.996	17.385 19.260	43.376 39.852	1.00 27.69 1.00 30.53
ATOM ATOM	856 857	CA C	GLU A GLU A	419	39.222 38.127	19.705 19.138	38.486 37.565	1.00 27.70 1.00 28.75
ATOM	858	0	GLU A	419	37.973	17.920	37.644	1.00 25.87
MOTA MOTA	859 860	CB CG	GLU A GLU A		40.567 40.880	19.171 19.646	38.008 36.586	1.00 32.23 1.00 40.70
ATOM ATOM	861 862	CD OE1	GLU A	419	42.378 43.197	19.766 19.569	36.390 37.319	1.00 49.13 1.00 54.26
MOTA	863	OE2	GLU A	419	42.768	20.087	35.253	1.00 53.59
ATOM ATOM	864 865	N CA	GLY A GLY A		37.466 36.492	19.950 19.450	36.778 35.807	1.00 31.18 1.00 27.93
ATOM ATOM	866 867	C O	GLY A	420	35.122 34.249	19.080 18.794	36.355 35.504	1.00 33.09 1.00 28.63
MOTA	868	N	ILE A	421	34.902	19.073	37.666	1.00 24.94
ATOM ATOM	869 870	CA C	ILE A		33.550 32.517	18.669 19.771	38.126 38.086	1.00 29.80 1.00 28.97
ATOM ATOM	871 872	O CB	ILE A		31.279 33.628	19.623 18.004	38.123 39.500	1.00 25.14 1.00 27.62
ATOM	873	CG1	ILE A	421	32.670	16.788	39.594	1.00 24.09.
ATOM ATOM	87 <b>4</b> 875	CG2 CD1	ILE A		33.307 32.796	19.021 16.062	40.589 40.920	1.00 25.66 1.00 26.64
ATOM ATOM	876 877	N CA	LEU A LEU A		32.974 32.064	21.033 22.151	38.058 37.994	1.00 29.20 1.00 29.02
ATOM	878	C	LEU A	422	31.130	22.047	36.786	1.00 28.10
ATOM ATOM	879 880	O CB	LEU A		29.936 32.832	22.370 23.474	36.938 37.990	1.00 26.46 1.00 34.57
ATOM ATOM	881 882	CG CD1	LEU A		32.019 31.516	24.681 24.495	38.416 39.849	1.00 40.29 1.00 31.88
MOTA	883	CD2	LEU A	422	32.838	25.975	38.252	1.00 39.46
ATOM ATOM	884 885	N CA	GLU A GLU A		31.671 30.835	21.647 21.486	35.639 34.431	1.00 25.58 1.00 29.62
ATOM ATOM	886 887	C	GLU A GLU A		29.725 28.595	20.452 20.664	34.679 34.252	1.00 28.25 1.00 27.19
MOTA	888	CB	GLU A	423	31.726	20.974	33.267	1.00 34.04
ATOM ATOM	889 890	CG CD	GLU A GLU A		31.029 <sup>2</sup> 31.782	20.644 19.973	31.973 30.850	1.00 44.60 1.00 50.42
ATOM ATOM	891 892	OE1 OE2		423	32.943 31.182	19.506 19.846	30.965 29.747	1.00 51.43 1.00 55.11
ATOM	893	N	ILE A	424	30.100	19.371	35.348	1.00 22.70
ATOM ATOM	894 895	CA C	ILE A		29.183 28.161	18.289 18.831	35.705 36.706	1.00 20.28 1.00 20.01
ATOM ATOM	896 897	O CB	ILE A		26.968 29.908	18.612 17.079	36.533 36.296	1.00 18.93 1.00 20.86
ATOM	898	CG1	ILE A	424	31.091	16.538	35.477	1.00 26.56
ATOM ATOM	899 900	CG2	ILE A	424	28.909 30.837	15.958 16.382	36.559 34.004	1.00 19.58 1.00 32.30
ATOM ATOM	901 902	N CA	PHE A		28.572 27.563	19.625 20.165	37.705 38.618	1.00 21.17 1.00 22.12
ATOM	903	С	PHE A	425	26.562	21.060	37.921	1.00 23.84
ATOM ATOM	904 905	O CB	PHE A	425	25.358 28.265	21.088 20.943	38.232 39.744	1.00 20.50 1.00 22.81
ATOM ATOM	906 907		PHE A		28.866 28.974	20.061 18.689	40.816 40.724	1.00 24.91 1.00 20.45
ATOM	908	CD2	PHE A	425	29.312	20.649	41.986	1.00 24.78
ATOM ATOM	909 910	CE1	PHE A	425	29.536 29.849	17.906 19.888	41.701 42.999	1.00 22.48 1.00 26.28
ATOM ATOM	911 912	CZ N	PHE A ASP A		29.958 27.088	18.527 21.901	42.866 37.013	1.00 28.92 1.00 24.52
ATOM	913	CA	ASP A	426	26.215	22.841	36.274	1.00 24.95 1.00 24.85
MOTA MOTA	914 915	С 0	ASP A	426	25.206 24.035	22.084 22.490	35.406 35.318	1.00 26.21
MOTA MOTA	916 917	CB CG	ASP A		27.115 27.712	23.764 24.875	35.443 36.299	1.00 24.42 1.00 31.66

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MOTA	918	OD1	ASP A 426		27.244	25.208	37.405	1.00 32.79
ATOM	919	OD2			28.716	25.431	35.813	1.00 32.76
MOTA	920	N	MET A 427		25.653	21.005	34.757	1.00 22.59
ATOM	921	CA	MET A 427		24.719			
ATOM	922					20.177	33.979	1.00 23.55
		C	MET A 427		23.619	19.572	34.871	1.00 22.77
ATOM	923	0_	MET A 427		22.426	19.571	34.511	1.00 22.13
ATOM	924	CB	MET A 427		25.382	18.953	33.318	1.00 23.77
ATOM	925	CG	MET A 427		26.166	19.216	32.058	1.00 39.26
ATOM	926	SD	MET A 427		27.097	17.719	31.652	1.00 33.49
ATOM	927	CE	MET A 427		28.487	18.460	30.795	1.00 41.30
MOTA	928	N	LEU A 428		24.041	19.061	36.022	1.00 18.69
ATOM	929	CA	LEU A 428		23.120	18.480	36.982	1.00 18.97
ATOM	930	C	LEU A 428		22.129	19.543	37.489	1.00 22.36
ATOM	931	ŏ	LEU A 428		20.945	19.276		
							37.539	1.00 20.87
ATOM	932	СВ	LEU A 428		23.827	17.857	38.196	1.00 21.39
MOTA	933	CG	LEU A 428		24.649	16.599	37.827	1.00 22.33
MOTA	934		LEU A 428		25.693	16.260	38.887	1.00 20.04
ATOM	935	CD2	LEU A 428		23.682	15.441	37.588	1.00 19.44
MOTA	936	N	LEU A 429		22.616	20.730	37.858	1.00 20.75
MOTA	937	CA	LEU A 429		21.684	21.752	38.345	1.00 21.34
ATOM	938	С	LEU A 429		20.771	22.255	37.222	1.00 21.01
ATOM	939	0	LEU A 429		19.608	22.572	37.484	1.00 22.84
MOTA	940	CB	LEU A 429		22.576	22.910	38.843	1.00 22.26
ATOM	941	CG	LEU A 429	-	23.274	22.672	40.180	1.00 28.42
ATOM	942	CD1			24.433		40.100	
						23.668		
ATOM	943	CD2			22.287	22.730	41.331	1.00 29.09
ATOM	944	N	ALA A 430		21.330	22.398	36.022	1.00 22.61
ATOM	945	CA	ALA A 430		20.459	22.904	34.935	1.00 23.01
ATOM	946	С	ALA A 430		19.324	21.949	34.623	1.00 22.28
ATOM	947	0	ALA A 430		18.143	22.234	34.415	1.00 21.97
MOTA	948	CB	ALA A 430		21.351	23.146	33.718	1.00 24.63
ATOM	949	N	THR A 431		19.626	20.616	34.677	1.00 22.30
ATOM	950	CA	THR A 431		18.598	19.631	34.408	1.00 19.73
ATOM	951	C	THR A 431		17.553	19.549	35.498	1.00 20.90
ATOM	952	Ö	THR A 431		16.355		35.286	
						19.408		1.00 21.68
MOTA	953	CB	THR A 431		19.270	18.273	34.091	1.00 23.86
ATOM	954	OG1			20.179	18.438	33.003	1.00 22.73
ATOM	955	CG2	THR A 431		18.173	17.291	33.763	1.00 25.40
ATOM	956	N	THR A 432		18.044	19.673	36.746	1.00 22.30
MOTA	957	CA	THR A 432		17.171	19.702	37.910	1.00 21.09
MOTA	958	С	THR A 432		16.233	20.907	37.751	1.00 22.21
ATOM	959	0	THR A 432		15.047	20.780	38.056	1.00 21.87
MOTA	960	СВ	THR A 432		17.967	19.863	39.205	1.00 20.58
ATOM	961	OG1	THR A 432		18.805	18.708	39.393	1.00 19.56
ATOM	962	CG2	THR A 432		17.000	19.978	40.401	1.00 20.00
ATOM	963	N	SER A 433		16.810	22.022	37.252	1.00 23.81
ATOM	964	CA	SER A 433		15.898	23.187		
							37.068	1.00 24.78
ATOM	965	C	SER A 433		14.819	22.920	36.033	1.00 27.00
ATOM	966	0_	SER A 433		13.665	23.358	36.191	1.00 33.54
ATOM	967	СВ	SER A 433		16.709	24.424	36.654	1.00 29.38
ATOM	968	OG	SER A 433		17.674	24.752	37.647	1.00 29.98
ATOM	969	N	ARG A 434		15.148	22.167	34.984	1.00 26.97
ATOM	970	CA	ARG A 434		14.097	21.842	33.990	1.00 26.97
ATOM	971	С	ARG A 434		13.009	20.996	34.615	1.00 30.42
ATOM	972	0	ARG A 434		11.823	21.204	34.328	1.00 27.41
ATOM	973	CB	ARG A 434		14.752	21.167	32.801	1.00 25.33
ATOM	974	CG	ARG A 434		13.708	20.721	31.827	1.00 42.33
ATOM	975	CD	ARG A 434		12.817	21.554	31.010	1.00 49.31
ATOM	976	NE	ARG A 434		11.713	22.346	31.491	1.00 46.14
ATOM	977	CZ	ARG A 434		10.568	22.425	30.807	1.00 58.17
MOTA	978	CZ NUII	ARG A 434					
					10.399	21.741	29.673	1.00 57.71
ATOM	979		ARG A 434		9.588	23.206	31.266	1.00 58.73
MOTA	980	N	PHE A 435		13.341	20.066	35.543	1.00 22.36
ATOM	981	CA	PHE A 435		12.293	19.277	36.179	1.00 25.31
ATOM	982	Ċ	PHE A 435		11.524	20.205	37.144	1.00 22.12
ATOM	983	0	PHE A 435		10.294	20.007	37.311	1.00 24.29
ATOM	984	CB	PHE A 435		12.909	18.077	36.894	1.00 20.35
ATOM	985	CG	PHE A 435		13.318	16.946	35.972	1.00 23.24
ATOM	986		PHE A 435		12.380	16.302	35.170	1.00 25.28
ATOM	987		PHE A 435		14.634	16.508	35.910	1.00 25.71
MOTA	988		PHE A 435		12.767	15.255	34.343	1.00 29.66
ATOM	989	CE2	PHE A 435		15.004	15.490	35.079	1.00 25.15
ATOM	990	CZ	PHE A 435		14.095	14.853	34.287	1.00 25.57
ATOM	991	N	ARG A 436		12.161	21.138	37.805	1.00 21.91
ATOM	992	CA	ARG A 436		11.422	22.028	38.727	1.00 23.44
ATOM	993	C	ARG A 436		10.433	22.864	37.894	1.00 26.42
ATOM	994	0	ARG A 436		9.242	22.945	38.249	1.00 27.86

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	995 996 997 998 999 1000 1001 1002 1003	CG ARG CD ARG NE ARG CZ ARG NH1 ARG NH2 ARG	G A 436 G A 436 G A 436 G A 436 G A 436 G A 436 J A 437 J A 437	12.368 11.670 12.636 13.845 15.097 15.522 15.982 10.904	22.967 23.942 25.141 24.503 24.584 25.354 23.795 23.400 24.217	39.489 40.483 40.739 41.263 40.859 39.866 41.483 36.792 35.935	1.00 23.65 1.00 29.31 1.00 30.70 1.00 34.92 1.00 36.96 1.00 32.94 1.00 34.07 1.00 25.27 1.00 32.74
MOTA MOTA	1004 1005		J A 437 J A 437	8.817 7.668	23.413 23.875	35.448 35.338	1.00 32.08 1.00 27.72
MOTA	1006	CB GL	J A 437	10.767	24.809	34.765	1.00 33.92
ATOM ATOM	1007 1008		J A 437 J A 437	11.831 12.911	25.799 26.078	35.161 34.141	1.00 40.07 1.00 50.46
ATOM ATOM	1009 1010		J A 437 J A 437	12.797 13.916	25.709 26.722	32.943 34.561	1.00 51.91 1.00 53.95
ATOM	1011	N LE	J A 438	9.020	22.146	35.090	1.00 27.00
MOTA MOTA	1012 1013		J A 438 J A 438	7.921 7.122	21.269 20.813	34.681 35.882	1.00 27.50 1.00 23.14
MOTA	1014	O LEU	J A 438	6.119	20.121	35.729	1.00 25.79
ATOM ATOM	1015 1016	CG LE	J A 438 J A 438	8.482 8.842	19.998 20.132	33.993 32.526	1.00 31.41 1.00 40.32
ATOM ATOM	1017 1018		J A 438 J A 438	9.491 7.614	18.860 20.452	31.987 31.675	1.00 41.08 1.00 39.10
ATOM	1019	N LYS	A 439	7.498	21.129	37.130	1.00 24.41
ATOM ATOM	1020 1021		5 A 439 5 A 439	6.850 6.634	20.706 19.197	38.331 38.406	1.00 25.43 1.00 27.06
ATOM	1022	O LYS	A 439	5.572	18.619	38.637	1.00 24.32
MOTA MOTA	1023 1024		S A 439 S A 439	5.500 5.617	21.405 22.924	38.605 38.646	1.00 33.10 1.00 33.57
ATOM ATOM	1025 1026		A 439 A 439	4.307 4.111	23.503 24.919	39.237 38.704	1.00 42.76 1.00 47.35
MOTA	1027	NZ LYS	A 439	2.797	25.501	39.101	1.00 53.11
MOTA MOTA	1028 1029		J A 440 J A 440	7.713 7.745	18.479 17.019	38.105 38.154	1.00 22.41 1.00 19.51
ATOM ATOM	1030 1031		J A 440 J A 440	7.205 7.514	16.500 17.037	39.479: 40.524	1.00 20.02 1.00 20.61
MOTA	1032	CB LEU	J A 440	9.257	16.635	38.077	1.00 19.19
ATOM ATOM	1033 1034		J A 440 J A 440	9. <b>4</b> 91 8.999	15.126 14.476	38.152 36.869	1.00 23.27 1.00 20.04
ATOM	1035	CD2 LEU	J A 440	. 10.973	14.766	38.354	1.00 23.57
ATOM ATOM	1036 1037		I A 441 I A 441	6.261 5.631	15.572 14.957	39.391 40.541	1.00 21.24 1.00 27.68
ATOM ATOM	1038 1039		I A 441 I A 441	6.3 <b>4</b> 3 6.956	13.693 12.969	40.980 40.193	1.00 25.36 1.00 24.49
MOTA	1040	CB GLN	I A 441	4.168	14.650	40.088	1.00 26.49
ATOM ATOM	1041 1042		I A 441 I A 441	3.538 3.371	16.013 16.910	39.645 40.870	1.00 27.50 1.00 38.48
ATOM	1043 1044		A 441	2.720 3.926	16.500 18.107	41.851	1.00 44.82
ATOM ATOM	1045		A 442	6.263	13.394	40.916 42.274	1.00 40.95 1.00 26.03
ATOM ATOM	1046 1047		A 442 A 442	6.911 6.558	12.181 10.937	42.787 42.009	1.00 26.55 1.00 24.66
ATOM	1048	O HIS	A 442	7.472	10.187	41.610	1.00 23.31
ATOM ATOM	1049 1050	CG HIS	A 442 A 442	6.603 7.278	12.052 10.914	44.276 44.955	1.00 27.31 1.00 28.31
ATOM ATOM	1051 1052	ND1 HIS		8.666 6.817	10.898 9.788	45.111 45.551	1.00 35.26 1.00 27.34
MOTA	1053	CE1 HIS	A 442	9.004	9.810	45.796	1.00 30.99
ATOM ATOM	1054 1055	NE2 HIS	A 442	7.915 5.288	9.118 10.626	46.071 41.696	1.00 34.85 1.00 22.61
MOTA MOTA	1056 1057		A 443	5.004 5.508	9.421 9.465	40.939 39.490	1.00 22.02 1.00 20.78
MOTA	1058	O LYS	A 443	5.660	8.400	38.883	1.00 21.28
ATOM ATOM	1059 1060		A 443	3.494 3.045	9.093 8.904	40.933 42.433	1.00 25.46 1.00 29.15
ATOM ATOM	1061 1062		A 443	1.527 0.973	8.662 8.749	42.419 43.842	1.00 35.81 1.00 50.19
MOTA	1063	NZ LYS	A 443	-0.512	8.923	43.885	1.00 49.05
ATOM ATOM	1064 1065		A 444 A 444	5.621 6.194	10.629 10.712	38.862 37.520	1.00 21.19 1.00 21.16
ATOM ATOM	1066 1067	C GLU	A 444	7.704 8.215	10.362 9.621	37.666 36.854	1.00 19.76 1.00 20.88
MOTA	1068	CB GLU	A 444	6.115	12.170	37.043	1.00 23.14
MOTA MOTA	1069 1070		A 444 A 444	4.686 4.491	12.479 13.951	36.566 36.334	1.00 26.05 1.00 24.40
MOTA	1071	OE1 GLU		5.237	14.852	36.759	1.00 24.79

ATOM	1072	OE2	GLU A 444	3.508	14.272	35.614	1.00 27.56	
ATOM	1073	N	TYR A 445	8.319	10.868	38.714	1.00 19.97	
ATOM	1074	CA	TYR A 445	9.741	10.551	38.980	1.00 22.26	
ATOM ATOM	1075 1076	С 0	TYR A 445 TYR A 445		9.048 8.469	39.128 38.622	1.00 19.04 1.00 20.97	
ATOM	1075	CB	TYR A 445		11.291	40.206	1.00 20.97	
ATOM	1078	CG	TYR A 445	11.366	10.659		1.00 24.17	
ATOM	1079	CD1	TYR A 445 TYR A 445	12.643	10.727		1.00 26.90	
ATOM	1080	CD2	TYR A 445	11.166	10.029	42.192	1.00 22.07	
ATOM	1081	CE1	TYR A 445	13.727	10.156	41.087	1.00 22.98	
ATOM	1082		TYR A 445	12.249 13.491	9.453	42.829	1.00 26.07	
ATOM ATOM	1083 1084	CZ OH	TYR A 445	14.586	9.528 8.970	42.285 42.950	1.00 25.04 1.00 33.42	
ATOM	1085	N	TYR A 445 LEU A 446	9.105	8.389	39.995	1.00 18.03	
MOTA	1086	CA	LEU A 446 LEU A 446	9.240	6.938	40.102	1.00 24.19	
MOTA	1087	Ç	LEU A 446	9.232	6.239	38.755	1.00 18.83	
ATOM	1088	O	LEU A 446 LEU A 446	10.038	5.315 6.364	38.475	1.00 20.62	
ATOM ATOM	1089 1090	CB	1.EU A 446	8.090 8.104	6.364 7.007	40.975 42.394	1.00 23.00 1.00 27.50	
MOTA	1091	CD1	LEU A 446 LEU A 446	6.864	6.568	43.165	1.00 27.30	
MOTA	1092	CD2	LEU A 446	9.360		43.147	1.00 27.81	
MOTA	1093	N	LEU A 446 CYS A 447	9.360 8.256		37.863	1.00 19.93	
ATOM	1094	CA	CYS A 447 CYS A 447	8.172	5.920	36.591	1.00 21.27	
ATOM	1095	C	CYS A 447	9.414	6.235	35.722	1.00 18.48	
ATOM ATOM	1096 1097	O CB	CYS A 447 CYS A 447	9.908 6.956	5.341 6.313	35.061 35.775	1.00 19.17 1.00 20.29	
ATOM	1098	SG	CYS A 447	E 41E	5.811	36.632	1.00 20.23	
ATOM	1099	N	CYS A 447 VAL A 448	5.415 9.811	7.509	35.655	1.00 18.45	
ATOM	1100	CA	VAL A 448	10.988 12.245	7.806	34.826	1.00 20.08	
ATOM	1101	C	VAL A 448			35.280	1.00 21.79	
ATOM	1102 1103	O CB	VAL A 448	13.002 11.152	6.560	34.466	1.00 19.53	
MOTA MOTA	1103	CG1	VAL A 448 VAL A 448	12 507	9.358	34.853 34.360	1.00 24.07 1.00 28.67	
ATOM	1105	CG2	VAL A 448	10.025	9.721 9.856	33.907	1.00 29.43	
ATOM	1106	N	LYS A 449	12.452	7.021	36.602	1.00 18.71	
MOTA	1107	CA	LYS A 449		6.290	37.101		
ATOM	1108	C	LYS A 449		4.857	36.649	1.00 23.94	
ATOM ATOM	1109 1110	O CB	LYS A 449 LYS A 449		4.251 6.454	36.178 38.640	1.00 18.35 1.00 21.62	
MOTA	1111	CG	LYS A 449		5.973	39.135	1.00 23.58	
ATOM	1112	CD	LYS A 449		6.410	40.580	1.00 26.52	
MOTA	1113	CE	LYS A 449		5.858	41.501	1.00 25.87	
ATOM	1114	NZ	LYS A 449		5.765	42.945	1.00 26.92	
ATOM ATOM	1115 1116	N CA	ALA A 450 ALA A 450	12.478 12.323	4.190 2.831	36.703 36.260	1.00 18.50 1.00 21.41	
ATOM	1117	C	ALA A 450	12.563		34.783	1.00 20.13	
ATOM	1118	ō	ALA A 450 ALA A 450	13.206	2.711 1.738	34.329	1.00 18.60	
MOTA	1119	CB	ALA A 450	10.985	2.198	36.684	1.00 20.44	
ATOM				12.139			1.00 18.77	
ATOM ATOM	1121 1122	CA C	MET A 451 MET A 451	12.358 13.877	3.655 3.727	32.570 32.260	1.00 18.14 1.00 17.57	
ATOM	1123	ŏ	MET A 451	14.311	3.045	31.322	1.00 20.73	
ATOM	1124	СB	MET A 451	11.633	4.842	31.842	1.00 21.77	
ATOM	1125	CG	MET A 451	10.131	4.584	32.084	1.00 27.69	
ATOM	1126	SD	MET A 451	9.016	5.929	31.603	1.00 34.64	
MOTA MOTA	1127 1128	CE N	MET A 451 ILE A 452	9.857 14.588	6.385 4.498	30.106 33.024	1.00 35.01 1.00 16.50	
ATOM	1129	CA	ILE A 452	16.037	4.640	32.828	1.00 17.08	
ATOM	1130	C	ILE A 452	16.654	3.246	32.962	1.00 20.78	
ATOM	1131	0	ILE A 452	17.508	2.878	32.158	1.00 19.75	
ATOM	1132	CB	ILE A 452	16.625	5.638	33.802	1.00 19.19	
ATOM ATOM	1133 1134		ILE A 452 ILE A 452	16.292 18.162	7.107 5.500	33.388 33.943	1.00 17.81 1.00 20.76	
ATOM	1135		ILE A 452		8.045	34.585	1.00 20.76	
ATOM	1136	N	LEU A 453	16.259	2.506	33.992	1.00 19.70	
ATOM	1137	CA	LEU A 453	16.809	1.164	34.201	1.00 21.38	
MOTA	1138	C	LEU A 453	16.452	0.220	33.063	1.00 22.74	
ATOM	1139	O CB	LEU A 453	17.339	-0.447	32.508 35.526	1.00 23.04 1.00 20.23	
ATOM ATOM	1140 1141	CB CG	LEU A 453 LEU A 453	16.272 16.436	0.592 -0.933	35.526 35.734	1.00 20.23	
ATOM	1141		LEU A 453	17.861	-1.311	35.734	1.00 24.30	
ATOM	1143		LEU A 453	15.585	-1.366	36.938	1.00 30.09	
ATOM	1144	N	LEU A 454	15.173	0.257	32.658	1.00 18.55	
MOTA	1145	CA	LEU A 454	14.763 15.129	-0.675	31.599 30.191	1.00 20.55 1.00 22.40	
ATOM ATOM	1146 1147	C O	LEU A 454 LEU A 454	15.129	-0.287 -1.229	29.347	1.00 22.40	
ATOM	1148	СВ	LEU A 454	13.230	-0.867	31.745	1.00 21.21	

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1149 1150 1151 1152 1153 1154 1155 1156 1157 1158 1159	CD2 N CA C O CB CG OD1	LEU A 454 LEU A 454 ASN A 455	12.728 11.213 13.163 15.439 15.704 17.175 17.552 14.976 15.592 14.858	-1.146 -2.762 0.969 1.437 1.762 2.798 3.511 4.701	33.126 33.221 33.390 29.912 28.552 28.246 27.088 28.371 27.043 26.960 25.935	1.00 24.00 1.00 23.17 1.00 24.11 1.00 20.57 1.00 26.20 1.00 27.11 1.00 33.65 1.00 31.10 1.00 38.22 1.00 37.37 1.00 34.72
MOTA MOTA MOTA MOTA	1160 1161 1162 1163	N CA C O	SER A 456 SER A 456 SER A 456 SER A 456	17.997 19.382 20.311 21.062	2.119 1.573 2.288	29.258 29.231 28.153 27.473	1.00 30.24 1.00 36.00 1.00 36.83 1.00 33.20
ATOM ATOM ATOM ATOM	1164 1165 1166 1167	CB OG N CA	SER A 456 SER A 456 ALA A 457 ALA A 457	20.038 19.588 20.318 21.274	0.394 0.245	30.582 31.044 28.192 27.352	1.00 39.77 1.00 37.99 1.00 35.54 1.00 42.47
ATOM ATOM ATOM ATOM	1168 1169 1170 1171	C O CB N	ALA A 457 ALA A 457 ALA A 457 MET A 458	21.142 20.080 21.235 22.311	-0.038 0.110 -1.963	25.896 25.316 27.524 25.315	1.00 41.31 1.00 44.55 1.00 40.51 1.00 46.24
ATOM ATOM ATOM	1172 1173 1174	CA C O	MET A 458 MET A 458 MET A 458	22.508 22.623 22.945	0.547 -0.689 -1.782	23.933 23.027 23.501	1.00 48.76 1.00 53.25 1.00 58.48
	1175 1176 1177 1178	CB CG SD CE	MET A 458 MET A 458 MET A 458 MET A 458	23.841 23.888 22.827 23.515	2.585 3.882 4.064	23.819 24.618 23.950 22.295	1.00 47.06 1.00 44.75 1.00 37.82 1.00 37.93
ATOM ATOM ATOM ATOM	1179 1180 1181 1182	N CA C O	ALA A 469 ALA A 469 ALA A 469 ALA A 469	11.449 11.881 11.014	-14.119 -14.316 -13.355 -12.627	24.676 25.833 26.943 27.414	1.00 60.19 1.00 60.72 1.00 60.69 1.00 63.87
ATOM ATOM ATOM ATOM	1183 1184 1185 1186	CB CA C	ALA A 469 SER A 470 SER A 470 SER A 470	13.153 13.620 13.440	-15.721 -13.392 -12.423 -11.061	26.368 27.347 28.348 27.661	1.00 61.18 1.00 59.40 1.00 57.12 1.00 58.67
ATOM ATOM ATOM ATOM	1187 1188 1189 1190	O CB OG N	SER A 470 SER A 470 SER A 470 SER A 471	15.066 15.454 13.997	-10.174 -12.641 -11.735 -10.972	28.142 28.751 29.774 26.450	1.00 57.72 1.00 56.65 1.00 53.66 1.00 60.93
ATOM ATOM ATOM ATOM	1191 1192 1193 1194	CA C O CB	SER A 471 SER A 471 SER A 471		-9.446 -8.291 -10.007	25.607 25.460 25.674 24.210	1.00 60.15 1.00 61.94 1.00 59.07 1.00 60.90
ATOM ATOM ATOM	1195 1196 1197 1198	OG N CA C	SER A 471 ARG A 472 ARG A 472 ARG A 472	10.091 9.455	-10.412 -10.111 -9.705	26.351	1.00 63.44 1.00 61.18 1.00 61.86 1.00 55.71
ATOM ATOM ATOM	1199 1200 1201 1202 1203	O CB CG CD	ARG A 472 ARG A 472 ARG A 472 ARG A 472 ARG A 472	7.896 7.339	-8.942 -11.346 -11.320 -12.571	26.430 24.439 24.439 23.765	1.00 55.98 1.00 66.43 1.00 71.44 1.00 75.25
ATOM ATOM ATOM ATOM ATOM	1204 1205 1206 1207		ARG A 472 ARG A 472 ARG A 472 ARG A 472 LYS A 473	8.229 7.268 9.174	-13.690 -14.781 -14.977 -15.705 -10.212	23.790 23.045 22.145 23.192 27.461	1.00 77.23 1.00 79.57 1.00 80.41 1.00 79.36 1.00 52.42
ATOM ATOM ATOM ATOM	1208 1209 1210 1211	CA C O CB	LYS A 473 LYS A 473 LYS A 473 LYS A 473	9.497 9.945 9.187	-9.883 -8.463 -7.725 -10.914	28.804 29.166 29.794 29.790	1.00 52.83 1.00 48.89 1.00 51.86 1.00 56.33
ATOM ATOM ATOM ATOM	1212 1213 1214 1215	CG CD CE NZ	LYS A 473 LYS A 473 LYS A 473 LYS A 473	8.988 9.414 8.378	-11.534 -12.925 -13.586 -14.867	30.696 31.140 32.024 32.606	1.00 59.83 1.00 61.94 1.00 63.15 1.00 65.28
ATOM ATOM ATOM ATOM	1216 1217 1218 1219	N CA C	LEU A 474 LEU A 474 LEU A 474 LEU A 474	11.144 11.679 10.823 10.280	-8.065 -6.734 -5.675 -4.751	28.738 28.989 28.309 28.917	1.00 45.57 1.00 43.81 1.00 45.51 1.00 40.26
ATOM ATOM ATOM ATOM	1220 1221 1222 1223	CB CG CD1	LEU A 474 LEU A 474 LEU A 474 LEU A 474	13.135 13.753 13.670 15.201	-6.592 -5.187 -4.693 -5.159	28.503 28.638 30.088 28.185	1.00 42.11 1.00 39.15 1.00 34.72 1.00 34.37
ATOM ATOM	122 <b>4</b> 1225	N CA	ALA A 475 ALA A 475	10.584 9.787	-5.830 -4.953	27.004 26.164	1.00 42.52 1.00 41.94

ATOM	1226	С	ALA A	475	8.452	-4.581	26.793	1.00 41.48
ATOM	1227	0	ALA A		7.891	-3.490	26.828	1.00 45.13
MOTA MOTA	1228 1229	CB	ALA A HIS A		9.517 7.859	-5.761 -5.612	24.884	1.00 41.45 1.00 44.24
ATOM	1230	N CA	HIS A		6.609	-5.612	27.354 28.053	1.00 44.24
ATOM	1231	C	HIS A		6.640	-4.990	29.425	1.00 42.60
ATOM	1232	0	HIS A	476	5.672	-4.359	29.830	1.00 39.37
ATOM	1233	CB	HIS A		6.243	-7.140	28.168	1.00 54.04
ATOM	1234	CG	HIS A		5.008	-7.310	28.990	1.00 55.91
ATOM ATOM	1235		HIS A		5.063 3.716	-7.803	30.275	1.00 59.64
ATOM	1236 1237		HIS A		3.835	-7.013 -7.821	28.733 30.770	1.00 58.19 1.00 60.13
ATOM	1238		HIS A		2.996	-7.351	29.856	1.00 58.29
ATOM	1239	N	LEU A		7.757	-5.132	30.124	1.00 41.27
ATOM	1240	CA	LEU A		7.937	-4.489	31.425	1.00 38.48
ATOM	1241	C	LEU A		8.000	-2.966	31.201	1.00 30.49
ATOM ATOM	1242 1243	O CB	LEU A		7.353 9.229	-2.117 -4.994	31.820 32.078	1.00 31.42 1.00 37.51
ATOM	1243	CG	LEU A		9.565	-4.994	33.471	1.00 37.51
ATOM	1245	CD1	LEU A		8.323	-4.147	34.302	1.00 42.81
ATOM	1246	CD2	LEU A		10.487	-5.429	34.227	1.00 40.95
MOTA	1247	N	LEU A		8.786	-2.632	30.194	1.00 31.48
ATOM	1248	CA	LEU A		8.993	-1.262	29.749	1.00 33.28
ATOM	1249 1250	C	LEU A		7.676 7.328	-0.674	29.290 29.722	1.00 33.35 1.00 30.92
ATOM ATOM	1251	O CB	LEU A		10.130	0.441 -1.139	28.730	1.00 30.92 1.00 31.10
ATOM	1252	CG	LEU A		10.375	0.295	28.241	1.00 34.76
MOTA	1253	CD1			10.866	1.210	29.382	1.00 32.74
MOTA	1254	CD2	LEU A	_	11.333	0.415	27.084	1.00 33.23
MOTA	1255	N	ASN A		6.888	-1.392	28.480	1.00 34.95
ATOM	1256 1257	CA	ASN A ASN A		5.578 4.662	-0.880 -0.638	28.099	1.00 35.98 1.00 28.84
ATOM ATOM	1258	C O	ASN A		3.970	0.359	29.299 29.338	1.00 28.84 1.00 29.63
ATOM	1259	СB	ASN A		4.908	-1.837	27.092	1.00 42.20
MOTA	1260	CG	ASN A		5.611	-1.804	25.735	1.00 48.35
ATOM	1261		ASN A		5.951	-0.721	25.237	1.00 47.39
MOTA	1262	ND2	ASN A		5.801	-3.025	25.210	1.00 50.10
ATOM ATOM	1263 1264	N CA	ALA A ALA A		4.651 3.829	-1.498 -1.276	30.311 31.503	1.00 33.47 1.00 30.90
ATOM	1265	C	ALA A		4.228	-0.030	32.259	1.00 30.90
ATOM	1266	ō	ALA A		3.352	0.665	32.801	1.00 26.15
MOTA	1267	CB	ALA A		3.908	-2.526	32.390	1.00 34.69
ATOM	1268	N	VAL A		5.553	0.298	32.353	1.00 23.24
ATOM	1269 1270	CA C	VAL A		5.960 5.517	1.470 2.722	33.122 32.351	1.00 22.74 1.00 18.06
ATOM ATOM	1271	o	VAL A		5.153	3.729	32.331	1.00 18.06
ATOM	1272	СВ	VAL A		7.469	1.529	33.436	1.00 27.05
MOTA	1273		VAL A	481	7.838	2.847	34.155	1.00 23.49
ATOM	1274		VAL A		7.910	0.314	34.266	1.00 28.60
ATOM	1275	N	THR A		5.655	2.689	31.030	1.00 23.57
ATOM ATOM	1276 1277	CA C	THR A		5.220 3.721	3.783 4.017	30.154 30.327	1.00 26.39 1.00 22.53
ATOM	1278	ŏ	THR A		3.225	5.112	30.645	1.00 23.67
ATOM	1279	СВ	THR A		5.588	3.436	28.695	1.00 31.20
MOTA	1280	OG1	THR A		6.974	3.215	28.498	1.00 32.83
ATOM	1281	CG2			5.230	4.522	27.698	1.00 33.29
ATOM ATOM	1282 1283	N CA	ASP A		2.917 1.471	2.922 3.068	30.355 30.599	1.00 27.94 1.00 29.23
ATOM	1284	C	ASP A		1.177	3.699	31.933	1.00 25.55
ATOM	1285	ō	ASP A		0.289	4.539	32.087	1.00 31.75
MOTA	1286	CB	ASP A		0.689	1.742	30.578	1.00 33.31
MOTA	1287	CG	ASP A		0.420	1.189	29.200	1.00 37.11
ATOM	1288		ASP A		0.338 0.243	1.935 -0.048	28.199 29.064	1.00 38.37 1.00 40.00
MOTA MOTA	1289 1290	N N	ASP A ALA A		1.984	3.364	32.957	1.00 40.00
ATOM	1291	CA	ALA A		1.859	3.856	34.306	1.00 23.20
ATOM	1292	C	ALA A		2.129	5.346	34.356	1.00 22.08
MOTA	1293	0	ALA A		1.476	6.126	35.054	1.00 26.22
ATOM	1294	CB	ALA A		2.811	3.100	35.251	1.00 22.07
MOTA ATOM	1295 1296	N CA	LEU A		3.192 3.525	5.769 7.206	33.625 33.576	1.00 26.30 1.00 20.03
ATOM	1297	CA	LEU A		2.364	7.896	32.849	1.00 22.17
MOTA	1298 .	ŏ	LEU A		1.940	8.956	33.304	1.00 26.47
ATOM	1299	CB	LEU A		4.842	7.395	32.776	1.00 20.92
MOTA	1300	CG	LEU A		5.232	8.863	32.522	1.00 21.92
MOTA MOTA	1301 1302		LEU A		5.387 6.554	9.644 8.878	33.822 31.721	1.00 23.10 1.00 22.61
TIOM	1302	CDZ	TTO W	-03	0.554	5.576	J41	1.00 22.01

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1303 1304 1305 1306 1307 1308 1310 1311 1312 1313 1314 1315 1316 1317 1318 1319 1321 1322 1323 1324	CG2 N CA C O CB CD1 CD2 NE1 CE2 CE3 CZ2 CZ3 CH2 N	TRP A VAL A	486 486 486 486 487 487 487 487 487 487 487 487 487 487	1.882 0.750 -0.459 -1.137 0.450 -0.889 1.555 -0.704 -1.813 -1.595 -2.490 -1.961 -2.952 -4.312 -2.695 -4.915 -3.942 -1.555 -1.675 -2.925 -0.324	7.319 7.946 8.062 9.081 7.134 7.515 7.198 7.032 7.029 8.089 8.869 5.586 5.400 5.681 5.586 5.503 5.845 5.503 5.845 5.715	31.775 31.037 31.975 32.037 29.781 29.131 28.723 32.786 33.747 34.799 35.094 34.390 35.502 35.367 36.900 36.603 37.560 37.560 37.560 37.670 38.947 39.047 39.689 35.293	1.00 27.15 1.00 27.86 1.00 27.38 1.00 30.67 1.00 31.08 1.00 34.82 1.00 29.27 1.00 29.86 1.00 33.05 1.00 36.27 1.00 33.38 1.00 32.60 1.00 37.95 1.00 43.97 1.00 37.38 1.00 37.38 1.00 41.60 1.00 42.43 1.00 39.24 1.00 39.24 1.00 33.25
ATOM ATOM ATOM ATOM ATOM	1325 1326 1327 1328 1329	CA C O CB	VAL A VAL A VAL A VAL A	488 488 488	-0.071 -0.300 -0.775 1.404 1.675	9.273 10.651 11.526 9.226 10.401	36.250 35.669 36.380 36.805 37.711	1.00 24.32 1.00 23.44 1.00 28.37 1.00 25.91 1.00 26.73
ATOM ATOM ATOM	1330 1331 1332	CG2 N CA	VAL A ILE A ILE A	488 489 489	1.628 0.120 -0.044	7.908 10.908 12.233	37.545 34.411 33.849	1.00 26.12 1.00 24.14 1.00 21.86
ATOM ATOM ATOM	1333 1334 1335 1336	C O CB CG1		489 489 489	-1.572 -2.028 0.659 2.205	12.521 13.610 12.310 12.283	33.604 33.910 32.501 32.756	1.00 24.17 1.00 27.18 1.00 27.91 1.00 23.18
ATOM ATOM ATOM ATOM	1337 1338 1339 1340	CG2 CD1 N CA	ILE A ALA A ALA A	489 490 490	0.349 2.871 -2.197 -3.661	13.603 11.911 11.421 11.609	31.762 31.416 33.241 32.971	1.00 24.36 1.00 23.22 1.00 27.97 1.00 38.05
ATOM ATOM ATOM	1341 1342 1343 1344	C O CB N	ALA A ALA A ALA A LYS A	490 490 491	-4.468 -5.461 -4.193 -4.053	12.018 12.758 10.347 11.710	34.168 34.028 32.324 35.395	1.00 40.03 1.00 44.53 1.00 32.57 1.00 41.28
ATOM ATOM ATOM	1345 1346 1347 1348	CA C O CB	LYS A LYS A LYS A	491 491 491	-4.770 -4.714 -5.514 -4.423	12.013 13.450 13.839 10.983	36.608 37.049 37.904 37.665	1.00 39.88 1.00 41.63 1.00 40.95 1.00 46.07
ATOM ATOM ATOM	1349 1350 1351 1352	CG CD CE NZ	LYS A LYS A LYS A	491 491 491	-2.631	9.101	38.854 39.711 40.973 41.881	1.00 55.67
ATOM ATOM ATOM	1353 1354 1355 1356	N CA C	SER A SER A SER A	492 492 492	-3.923 -3.912 -5.139 -5.478	14.308 15.741 16.352 17.525	36.410 36.672 35.960 36.050	1.00 34.55 1.00 36.18 1.00 37.48 1.00 40.92
ATOM ATOM ATOM	1357 1358 1359 1360	CB OG N CA	SER A SER A GLY A GLY A	492 493 493	-2.639 -2.727 -5.740 -6.895	16.378 16.210 15.560 15.878	36.086 34.657 35.084 34.283	1.00 35.10 1.00 35.62 1.00 38.75 1.00 42.90
ATOM ATOM ATOM	1361 1362 1363 1364	C O N CA	GLY A GLY A ILE A ILE A	493 494 494	-6.682 -7.654 -5.456 -5.212	16.956 17.652 17.078 18.106	33.240 32.910 32.727 31.690	1.00 43.44 1.00 40.48 1.00 35.87 1.00 33.56
ATOM ATOM ATOM	1365 1366 1367 1368		ILE A ILE A ILE A	494 494 494	-5.691 -5.950 -3.734 -2.877	17.494 16.286 18.543 17.319	30.391 30.309 31.664 31.371	1.00 30.12 1.00 32.80 1.00 36.79 1.00 31.42
ATOM ATOM ATOM ATOM	1369 1370 1371 1372	CD1 N CA	ILE A ILE A SER A SER A	494 495 495	-3.387 -1.378 -5.889 -6.414	19.189 17.458 18.311 17.762	33.002 31.570 29.352 28.115	1.00 37.06 1.00 31.81 1.00 32.65 1.00 35.83
ATOM ATOM ATOM	1373 1374 1375 1376	C O CB OG	SER A SER A SER A	495 495 495	-5.440 -4.258 -6.712 -5.497	16.781 16.704 18.859 19.492	27.479 27.857 27.106 26.741	1.00 41.15 1.00 35.53 1.00 39.81 1.00 41.83
ATOM ATOM ATOM	1377 1378 1379	N CA C	SER A SER A	496	-6.019 -5.253 -4.047	16.067 15.104 15.740	26.511 25.744 25.068	1.00 38.77 1.00 40.43 1.00 39.16

MOTA	1380	0	SER A 496	-2.997	15.075	25.065	1.00 32.27
MOTA	1381	CB	SER A 496	-6.165	14.425	24.705	1.00 45.71
ATOM	1382	OG	SER A 496	-6.874	15.475	24.036	1.00 58.28
MOTA	1383	N	GLN A 497	-4.163	16.920	24.486	1.00 33.62
ATOM	1384	CA	GLN A 497	-3.013	17.537	23.846	1.00 30.60
ATOM	1385	C	GLN A 497	-1.903	17.799	24.866	1.00 27.01
ATOM	1386	ŏ	GLN A 497	-0.712	17.722	24.566	1.00 25.03
	1387			-3.450	18.912	23.304	1.00 29.67
ATOM		CB	GLN A 497				
ATOM	1388	CG	GLN A 497	-2.408	19.547	22.388	1.00 27.55
ATOM	1389	CD	GLN A 497	-1.449	20.438	23.130	1.00 34.92
MOTA	1390	OE1		-1.807	20.960	24.189	1.00 40.14
ATOM	1391	NE2		-0.228	20.613	22.652	1.00 32.44
ATOM	1392	N	GLN A 498	-2.270	18.326	26.042	1.00 26.37
ATOM	1393	CA	GLN A 498	-1.342	18.677	27.107	1.00 28.55
ATOM	1394	С	GLN A 498	-0.738	17.413	27.727	1.00 26.58
ATOM	1395	0	GLN A 498	0.435	17.482	28.207	1.00 26.30
ATOM	1396	CB	GLN A 498	-1.952	19.578	28.196	1.00 33.52
ATOM	1397	CG	GLN A 498	-2.140	21.027	27.725	1.00 38.85
ATOM	1398	CD	GLN A 498	-0.799	21.708	27.516	1.00 44.43
ATOM	1399	OE1		-0.054	21.850	28.497	1.00 49.42
ATOM	1400	NE2		-0.496	22.141	26.294	1.00 39.08
ATOM	1401	N	GLN A 499	-1.450	16.296	27.726	1.00 26.16
				-0.911	15.050	28.276	1.00 26.10
ATOM	1402	CA	GLN A 499			27.407	
MOTA	1403	C	GLN A 499	0.242	14.556		1.00 31.44
ATOM	1404	0_	GLN A 499	1.226	14.057	27.933	1.00 26.52
MOTA	1405	CB	GLN A 499	-1.931	13.910	28.339	1.00 30.42
ATOM	1406	CG	GLN A 499	-2.997	14.113	29.400	1.00 31.96
ATOM	1407	CD	GLN A 499	-3.974	12.950	29.393	1.00 41.30
MOTA	1408	OE1	GLN A 499	-3.628	11.776	29.317	1.00 40.19
MOTA	1409	NE2	GLN A 499	-5.267	13.267	29.460	1.00 41.59
ATOM	1410	N	SER A 500	0.064	14.631	26.086	1.00 25.27
ATOM	1411	CA	SER A 500	1.083	14.229	25.133	1.00 29.39
ATOM	1412	C	SER A 500	2.292	15.157	25.229	1.00 25.24
ATOM	1413	ŏ	SER A 500	3.425	14.688	25.136	1.00 24.41
ATOM	1414	CB	SER A 500		14.277	23.690	1.00 28.59
ATOM	1415	OG	SER A 500	-0.409	13.240	23.513	1.00 34.11
		N	MET A 501	2.048	16.461	25.413	1.00 34.11
ATOM	1416						
ATOM	1417	CA	MET A 501	3.145	17.410	25.539	1.00 25.98
MOTA	1418	C	MET A 501	3.920	17.119	26.823	1.00 26.81
MOTA	1419	0	MET A 501	5.158	17.203	26.791	1.00 23.19,
ATOM	1420	CB	MET A 501	2.697	18.890	25.502	1.00 30.80
ATOM	1421	CG	MET A 501	3.552	19.758	24.600	1.00 46.15
ATOM	1422	SD	MET A 501	3.103	19.769	22.874	1.00 47.15
MOTA	1423	CE	MET A 501	2.464	18.152	22.499	1.00 52.53
ATOM	1424	N	ARG A 502	3.230	16.759	27.895	1.00 20.36
ATOM	1425	CA	ARG A 502	3.927	16.549	29.173	1.00 22.08
ATOM	1426	С	ARG A 502	4.758	15.264	29.102	1.00 21.26
ATOM	1427	0	ARG A 502	5.910	15.222	29.533	1.00 22.71
ATOM	1428	СB	ARG A 502	2.897	16.497	30.329	1.00 23.98
ATOM	1429	CG	ARG A 502	3.628	16.378	31.664	1.00 24.01
ATOM	1430	CD	ARG A 502	2.730	16.533	32.892	1.00 27.06
ATOM	1431	NE	ARG A 502	3.540	16.593	34.105	1.00 23.61
ATOM	1432	CZ	ARG A 502	4.211	17.635	34.552	1.00 22.53
ATOM	1433		ARG A 502	4.895	17.470	35.711	1.00 26.82
ATOM	1434		ARG A 502	4.218	18.780	33.907	1.00 22.56
			LEU A 503	4.162	14.232	28.466	1.00 19.02
ATOM	1435	N					
MOTA	1436	CA	LEU A 503	4.925	12.986	28.284	1.00 21.30
ATOM	1437	C	LEU A 503	6.138	13.260	27.421	1.00 23.43
MOTA	1438	0_	LEU A 503	7.292	12.886	27.742	1.00 19.06
ATOM	1439	СВ	LEU A 503	3.966	11.989	27.615	1.00 25.98
MOTA	1440	CG	LEU A 503	4.535	10.636	27.243	1.00 22.62
MOTA	1441	CD1	LEU A 503	5.053	9.898	28.501	1.00 21.09
ATOM	1442	CD2	LEU A 503	3.433	9.776	26.604	1.00 23.95
ATOM	1443	N	ALA A 504	5.963	14.019	26.321	1.00 18.94
ATOM	1444	CA	ALA A 504	7.116	14.256	25.459	1.00 20.93
ATOM	1445	C	ALA A 504	8.182	15.057	26.200	1.00 22.24
ATOM	1446	ŏ	ALA A 504	9.386	14.873	26.026	1.00 22.41
ATOM	1447	СВ	ALA A 504	6.684	15.142	24.288	1.00 26.47
ATOM	1448	N	ASN A 505	7.748	16.098	26.956	1.00 19.01
ATOM	1449	CA	ASN A 505	8.708	16.944	27.653	1.00 24.23
AT 011		~~		9.551	16.177	28.690	
$\Delta T \cap M$	•	C	ACM A SOS	J.JJI	<b></b>		1 1111 /4 15
ATOM	1450	C	ASN A 505	10 755			1.00 24.35
ATOM	1450 1451	0	ASN A 505	10.755	16.445	28.839	1.00 22.02
ATOM ATOM	1450 1451 1452	O CB	ASN A 505 ASN A 505	8.055	16.445 18.097	28.839 28.416	1.00 22.02 1.00 25.76
ATOM ATOM ATOM	1450 1451 1452 1453	O CB CG	ASN A 505 ASN A 505 ASN A 505	8.055 7.840	16.445 18.097 19.266	28.839 28.416 27.443	1.00 22.02 1.00 25.76 1.00 36.96
ATOM ATOM ATOM ATOM	1450 1451 1452 1453 1454	O CB CG OD1	ASN A 505 ASN A 505 ASN A 505 ASN A 505	8.055 7.840 8.741	16.445 18.097 19.266 19.470	28.839 28.416 27.443 26.630	1.00 22.02 1.00 25.76 1.00 36.96 1.00 38.16
ATOM ATOM ATOM	1450 1451 1452 1453	O CB CG	ASN A 505 ASN A 505 ASN A 505 ASN A 505	8.055 7.840	16.445 18.097 19.266	28.839 28.416 27.443	1.00 22.02 1.00 25.76 1.00 36.96

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1457 1458 1459 1460 1461 1462 1463 1464 1465		LEU A	506 506 506 506 506 507 507	9.589 10.539 11.696 8.592 7.680 6.606 8.442 10.084 10.988 12.076	14.516 13.552 13.419 13.707 14.476 13.555 15.065 12.890 11.929 12.613	30.450 29.784 30.231 31.278 32.230 32.781 33.422 28.683 28.063 27.268	1.00 20.82 1.00 20.11 1.00 21.17 1.00 19.79 1.00 22.72 1.00 23.93 1.00 26.30 1.00 19.88 1.00 21.64 1.00 22.05
ATOM ATOM	1467 1468	O CB	LEU A LEU A	507	13.121 10.181	11.940 10.891	27.163 27.265	1.00 25.18 1.00 19.48
ATOM ATOM	1469 1470	CG CD1	LEU A LEU A		9.165 8.420	10.148 9.135	28.158 27.311	1.00 26.42 1.00 28.63
ATOM ATOM	1471 1472	CD2 N	LEU A		9.853 11.877	9.479 13.849	29.339 26.818	1.00 25.64 1.00 16.93
MOTA	1473	CA	MET A	508	12.986	14.496	26.123	1.00 23.08
MOTA MOTA	1474 1475	С 0	MET A MET A	508	14.076 15.265	14.811 14.820	27.154 26.855	1.00 28.54 1.00 23.86
MOTA ATOM	1476 1477	CB CG	MET A		12.603 12.016	15.865 15.450	25.438 24.036	1.00 26.46 1.00 23.87
ATOM	1478 1479	SD	MET A	508	11.715	17.040	23.204	1.00 27.80
MOTA MOTA	1480	CE N	MET A LEU A	509	10.678 13.694	17.924 15.107	24.359 28.395	1.00 30.56 1.00 25.05
ATOM ATOM	1481 1482	CA C	LEU A LEU A		14.653 15.476	15.377 14.184	29.477 29.885	1.00 27.05 1.00 22.15
ATOM ATOM	1483 1484	0	LEU A LEU A	509	16.562	14.328	30.484	1.00 26.84
MOTA	1485	CB CG	LEU A	509	13.929 13.620	15.907 17.398	30.716 30.651	1.00 28.80 1.00 35.21
ATOM ATOM	1486 1487	CD1 CD2			12.905 14.902	17.767 18.188	31.920 30.394	1.00 32.29 1.00 36.14
ATOM ATOM	1488 1489	N CA	LEU A LEU A	510	15.101 15.847	12.954 11.731	29.602 29.817	1.00 22.10 1.00 31.30
ATOM	1490	С	LEU A	510	17.152	11.661	29.004	1.00 27.86
ATOM ATOM	1491 1492	O CB	LEU A LEU A		18.184 15.009	11.107 10.509	29.461 29.533	1.00 25.83 1.00 32.50
ATOM ATOM	1493 1494	CG CD1	LEU A LEU A		14.041 14.036	10.070 8.558	30.659 30.650	1.00 37.86 1.00 33.60
ATOM	1495	CD2	LEU A	510	14.409	10.625	32.030	1.00 41.89
ATOM ATOM	1496 1497	N CA	SER A SER A		17.164 18.407	12.332 12.412	27.846 27.088	1.00 21.01 1.00 19.52
ATOM ATOM	1498 1499	C	SER A SER A		19.356 20.578	13.350 13.174	27.853 27.756	1.00 20.33 1.00 19.80
MOTA	1500	CB	SER A	511	18.054	13.094	25.749	1.00 21.91
ATOM ATOM	1501 1502	OG N	SER A HIS A	512	17.353 18.820	12.110 14.337	24.988 28.598	1.00 27.19 1.00 17.00
ATOM ATOM	1503 1504	CA C	HIS A		19.675 20.310	15.265 14.488	29.350 30.520	1.00 17.20 1.00 18.30
ATOM	1505	0	HIS A	512	21.462	14.726	30.897	1.00 18.47
ATOM ATOM	1506 1507	CB	HIS A	512	18.901 18.468	16.482 17.393	29.781 28.645	1.00 22.31 1.00 27.23
ATOM ATOM	1508 1509		HIS A		18.601 17.899	18.755 17.200	28.801 27.450	1.00 30.72 1.00 32.28
ATOM ATOM	1510 1511	CE1	HIS A	512	18.129 17.705	19.363 18.450	27.717 26.873	1.00 33.98 1.00 27.65
MOTA	1512	N	VAL A	513	19.477	13.666	31.181	1.00 18.12
ATOM ATOM	1513 1514	CA C	VAL A	513	19.990 21.030	12.851 11.881	32.290 31.730	1.00 22.72 1.00 20.91
ATOM ATOM	1515 1516	O CB	VAL A		22.097 18.8 <b>47</b>	11.700 12.145	32.335 33.064	1.00 20.66 1.00 22.88
ATOM ATOM	1517 1518	CG1	VAL A	513	19.459 17.778	11.526 13.131	34.341	1.00 23.18
MOTA	1519	N	ARG A	514	20.876	11.298	33.458 30.545	1.00 20.14 1.00 19.00
ATOM ATOM	1520 1521	CA C	ARG A		21.899 23.173	10.441 11.232	29.925 29.640	1.00 20.34 1.00 20.91
ATOM ATOM	1522 1523	O CB	ARG A	514	24.289 21.354	10.721 9.808	29.911 28.623	1.00 18.76 1.00 18.63
MOTA	1524	CG	ARG A	-514	22.254	8.874	27.840	1.00 22.80
ATOM ATOM	1525 1526	CD NE	ARG A		22.365 21.077	7.479 6.785	28.524 28.263	1.00 30.40 1.00 34.94
ATOM ATOM	1527 1528	CZ NH1	ARG A		20.885 21.890	5.873 5.517	27.310 26.538	1.00 36.49 1.00 35.79
MOTA	1529	NH2	ARG A	514	19.683	5.346	27.147	1.00 41.59
ATOM ATOM	1530 1531	N CA	HIS A	515	23.056 24.205	12.440	29.151 28.810	1.00 18.76 1.00 21.44
ATOM ATOM	1532 1533	С 0	HIS A		25.011 26.244	13.540 13.432	30.105 30.147	1.00 18.96 1.00 17.34

,								
MOTA	1534	CB	HIS A 515	23.755	14.646	28.186	1.00 20.53	
ATOM	1535	CG	HIS A 515	24.880	15.556	27.748	1.00 25.29	
ATOM	1536		HIS A 515	25.296	16.581	28.585	1.00 35.84	
ATOM	1537		HIS A 515	25.726	15.642	26.703	1.00 29.95	
ATOM	1538			26.312	17.249	28.046	1.00 23.33	
	1539		HIS A 515		16.696	26.909	1.00 32.00	
ATOM			HIS A 515	26.606				
ATOM	1540	N	ALA A 516	24.275	13.854	31.185	1.00 18.30	
MOTA	1541	CA	ALA A 516	24.996	14.120	32.445	1.00 18.51	
MOTA	1542	C	ALA A 516	25.711	12.871	32.896	1.00 16.96	
MOTA	1543	0	ALA A 516	26.824	12.971	33.458	1.00 17.97	
MOTA	1544	CB	ALA A 516	23.976	14.626	33.499	1.00 17.16	
MOTA	1545	N	SER A 517	25.037	11.721	32.775	1.00 13.23	
ATOM	1546	CA	SER A 517	25.702	10.469	33.226	1.00 15.19	
ATOM	1547	C	SER A 517	26.931	10.196	32.386	1.00 19.61	
ATOM	1548	0	SER A 517	27.959	9.748	32.898	1.00 16.73	
ATOM	1549	СB	SER A 517	24.651	9.355	33.164	1.00 20.28	
ATOM	1550	0G	SER A 517	24.221	8.924	31.883	1.00 35.94	
ATOM	1551	N	ASN A 518	26.850	10.393	31.069	1.00 15.58	
ATOM	1552	CA	ASN A 518	28.059	10.099	30.252	1.00 17.67	
ATOM	1553	C	ASN A 518	29.163	11.108	30.623	1.00 17.07	
ATOM	1554	Ö	ASN A 518	30.335	10.742	30.682	1.00 18.53	
ATOM	1555	СВ	ASN A 518	27.733	10.366	28.774	1.00 18.33	
							1.00 19.79	
ATOM	1556	CG	ASN A 518	26.808	9.340	28.118		
ATOM	1557	OD1		26.142	9.822	27.189	1.00 31.32	
ATOM	1558		ASN A 518	26.903	8.120	28.634	1.00 29.79	
ATOM	1559	N	LYS A 519	28.774	12.388	30.869	1.00 18.99	
ATOM	1560	CA	LYS A 519	29.861	13.324	31.222	1.00 19.79	
ATOM	1561	Ç	LYS A 519	30.474	12.933	32.560	1.00 22.35	
MOTA	1562	0	LYS A 519	31.692	13.041	32.810	1.00 19.90	
ATOM	1563	CB	LYS A 519	29.351	14.774	31.166	1.00 20.32	
MOTA	1564	CG	LYS A 519	28.748	15.191	29.831	1.00 29.40	
MOTA	1565	CD	LYS A 519	29.562	14.820	28.603	1.00 40.46	
MOTA	1566	CE	LYS A 519	30.943	15.429	28.663	1.00 43.73	
ATOM	1567	NZ	LYS A 519	30.945	16.821	29.190	1.00 52.15	
ATOM	1568	N	GLY A 520	29.640	12.570	33.550	1.00 19.78	
ATOM	1569	CA	GLY A 520	30.068	12.129	34.849	1.00 21.87	
ATOM	1570	С	GLY A 520	30.951	10.892	34.772	1.00 20.42	
ATOM	1571	0	GLY A 520	31.990	10.889	35.452	1.00 20.49	
ATOM	1572	N	MET A 521	30.641	9.931	33.866	1.00 17.39	
ATOM	1573	CA	MET A 521	31.494	8.751	33.761	1.00 20.77	
ATOM	1574	C	MET A 521	32.854	9.090	33.132	1.00 22.09	
ATOM	1575	ō	MET A 521	33.874	8.495	33.496	1.00 25.57	
ATOM	1576	СB	MET A 521	30.859	7.661	32.894	1.00 21.70	
ATOM	1577	CG	MET A 521	29.597	7.087	33.542	1.00 22.12	
ATOM	1578	SD	MET A 521	29.941	6.202	35.059	1.00 25.78	
ATOM	1579	CE	MET A 521	30.966	4.858	34.483	1.00 34.57	
ATOM	1580	N	GLU A 522	32.821	10.026	32.210	1.00 19.77	
ATOM	1581	CA	GLU A 522	34.082	10.475	31.567	1.00 25.22	
							1.00 27.04	
ATOM ATOM	1582 1583	С 0	GLU A 522 GLU A 522	34.992 36.222	11.125	32.617	1.00 27.04	
	1584	СВ	GLU A 522	33.737	11.549	30.540	1.00 28.85	
ATOM	1585		GLU A 522	34.963	11.924	29.709	1.00 28.85	
MOTA		CG	GLU A 522	34.586	12.775	28.502	1.00 38.43	
ATOM	1586	CD	GLU A 522		13.439	28.455	1.00 42.28	
ATOM	1587 1588		GLU A 522	33.522	12.792	27.558	1.00 44.02	
ATOM			HIS A 523	35.398 34.365	11.986	33.411	1.00 44.02	
ATOM	1589	N					1.00 25.58	
ATOM	1590	CA	HIS A 523	35.072	12.655	34.496	1.00 25.36	
ATOM	1591	C	HIS A 523	35.612	11.652	35.497		
ATOM	1592	O	HIS A 523	36.771	11.815	35.999	1.00 26.33	
ATOM	1593	CB	HIS A 523	34.136	13.679	35.140	1.00 21.63 1.00 24.67	
ATOM	1594	CG	HIS A 523	34.806	14.412	36.272		
ATOM	1595		HIS A 523	34.739	14.029	37.579	1.00 29.47	
ATOM	1596		HIS A 523	35.574	15.543	36.198	1.00 29.20	
ATOM	1597		HIS A 523	35.458	14.901	38.312	1.00 29.69	
ATOM	1598		HIS A 523	35.964	15.828	37.492	1.00 28.98	
ATOM	1599	N	LEU A 524	34.832	10.630	35.885	1.00 23.61	
MOTA	1600	CA	LEU A 524	35.316	9.624	36.806	1.00 25.30	
ATOM	1601	С	LEU A 524	36.493	8.821	36.262	1.00 29.29	
ATOM	1602	0	LEU A 524	37.517	8.568	36.943	1.00 25.59	
MOTA	1603	CB	LEU A 524	34.121	8.699	37.151	1.00 22.60	
MOTA	1604	CG	LEU A 524	34.407	7.594	38.141	1.00 26.13	
MOTA	1605		LEU A 524	35.007	8.077	39.469	1.00 23.83	
ATOM	1606	CD2	LEU A 524	33.118	6.810	38.416	1.00 26.40	
MOTA	1607	N	LEU A 525	36.388	8.450	34.978	1.00 26.41	
	1007							
ATOM	1608	CA	LEU A 525	37.508	7.752	34.317	1.00 29.31	
ATOM ATOM	1608 1609	C	LEU A 525	38.733	8.665	34.330	1.00 26.40	
MOTA	1608							

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ATOM	1611	СВ	LEU	A 52	37.125	7.485	32.859	1.00 30.24	С
ATOM	1612	CG		A 52		6.885	32.008	1.00 35.53	Č
ATOM	1613	CD1		A 52		5.515	32.560	1.00 33.00	С
MOTA	1614	CD2	LEU	A 52		6.926	30.556	1.00 38.35	С
ATOM	1615	N		A 52		9.964	34.173	1.00 28.04	N
MOTA	1616	CA		A 52		10.879	34.195	1.00 32.60	C
MOTA	1617	C		A 52		10.939	35.601	1.00 37.85	· C
ATOM	1618	0		A 52		10.831	35.827	1.00 32.78	0
MOTA	1619	CB		A 52		12.184	33.509	1.00 41.07	C
MOTA	1620 1621	CG OD1		A 52 A 52		12.066 11.382	31.989 31.400	1.00 49.96 1.00 47.80	C
ATOM ATOM	1622			A 52		12.701	31.238	1.00 47.80	О И
ATOM	1623	N		A 52		10.912	36.620	1.00 28.88	N
ATOM	1624	CA		A 52		10.932	38.016	1.00 31.09	Ċ
ATOM	1625	C		A 52		9.681	38.371	1.00 29.41	Ğ,
ATOM	1626	Ō		A 52		9.730	39.228	1.00 31.63	o ·
ATOM	1627	CB	MET	A 52	38.737	11.111	38.996	1.00 30.94	С
MOTA	1628	CG		A 52		12.480	39.050	1.00 32.25	C S C
ATOM	1629	SD		A 52		13.812	39.490	1.00 38.32	S
ATOM	1630	CE		A 52		14.517	37.876	1.00 42.34	С
ATOM	1631	N		A 52		8.580	37.788	1.00 29.65	N
MOTA	1632 1633	CA		A 52 A 52		7.290 7.321	37.996 37.261	1.00 33.35 1.00 40.21	C C
ATOM ATOM	1634	С 0		A 52		6.736	37.778	1.00 40.21	0
ATOM	1635	СВ		A 52		6.128	37.542	1.00 33.72	č
ATOM	1636	CG		A 52		4.749	37.628	1.00 43.74	C
ATOM	1637	CD		A 52		4.294	36.273	1.00 46.75	č
ATOM	1638	CE		A 52		2.830	36.366	1.00 53.32	Č
MOTA	1639	NZ		A 52		2.097	35.117	1.00 59.40	N
MOTA	1640	N	CYS	A 52		7.989	36.107	1.00 36.42	N
ATOM	1641	CA		A 52		8.114	35.386	1.00 45.49	С
ATOM	1642	С		A 52		9.085	36.089	1.00 44.41	С
MOTA	1643	0		A 52		8.956	35.943	1.00 46.54	
ATOM	1644	CB		A 52		8.551	33.933	1.00 45.99	C
ATOM	1645	SG		A 52		7.282	32.929	1.00 54.11	S
ATOM	1646	N		A 53		10.057	36.840 37.583	1.00 41.40 1.00 42.22	N C
ATOM ATOM	1647 1648	CA C		A 53 A 53		10.985 10.356	38.907	1.00 42.22	C
ATOM	1649	ò		A 53		10.330	39.741	1.00 42.74	Ö
ATOM	1650	СВ		A 53		12.315	37.843	1.00 47.78	Č
ATOM	1651	CG		A 53		13.248	36.639	1.00 54.93	Č
ATOM	1652	CD		A 53		14.622	37.112	1.00 59.63	Ċ
ATOM	1653	CE		A 53		15.306	36.131	1.00 62.07	· C
ATOM	1654	NZ	LYS	A 53		16.471	36.772	1.00 66.71	N
ATOM	1655	N		A 53		9.159	39.207	1.00 33.96	N
ATOM	1656	CA		A 53		8.329	40.356	1.00 36.95	C
ATOM	1657	C		A 53		8.962	41.597	1.00 37.21	C
ATOM	1658	O		A 53		8.759	42.729 40.595	1.00 34.97	, C
ATOM ATOM	1659 1660	CB CG		A 53 A 53		8.010 6.889	41.590	1.00 41.21 1.00 42.51	, C
ATOM	1661			A 53		5.783	41.548	1.00 44.47	Ö
ATOM	1662			A 53		7.161	42.564	1.00 45.94	N
ATOM	1663	N		A 53		9.713	41.376	1.00 33.14	N
ATOM	1664	CA		A 53		10.393	42.420	1.00 33.52	С
MOTA	1665	С		A 53		9.407	43.078	1.00 30.82	C
MOTA	1666	0	VAL	A 53		9.513	44.269	1.00 32.78	0
MOTA	1667	CB		A 53		11.631	41.888	1.00 30.67	C
MOTA	1668			A 53		12.351	42.894	1.00 30.77	C
ATOM	1669			A 53		12.624	41.305	1.00 33.95	C
MOTA	1670	N		A 53		8.425	42.334	1.00 28.16	N
MOTA	1671	CA		A 53		7.405	42.880 42.358	1.00 28.57 1.00 30.48	C
ATOM ATOM	1672	C O		A 53		6.084 6.090	42.336	1.00 30.48	ō
ATOM	1673 1674	СВ		A 53 A 53		7.497	42.507	1.00 34.23	č
ATOM	1675			A 53		8.771	43.058	1.00 25.81	č
ATOM	1676			A 53		7.456	40.990	1.00 27.14	č
ATOM	1677	N		A 53		4.992	43.030	1.00 33.55	С С И
ATOM	1678	CA		A 53		3.686	42.641	1.00 34.79	С
ATOM	1679	C		A 53		2.988	41.494	1.00 40.51	С
ATOM	1680	0	PRO	A 53	40.942	2.279	40.685	1.00 40.19	. 0
MOTA	1681	CB		A 53		2.868	43.926	1.00 38.33	C
ATOM	1682	CG		A 53		3.556	44.711	1.00 35.85	C
ATOM	1683	CD		A 53		5.017	44.357	1.00 35.36	C
ATOM	1684	N		A 53		3.074	41.407	1.00 31.84	N
	1605	~~	777 T	7 E -				1 (1)(1) 2/1 16/2	
MOTA	1685	CA		A 53		2.375	40.373	1.00 34.53	C C
ATOM ATOM ATOM	1685 1686 1687	CA C O	VAL	A 53 A 53 A 53	37.284	3.306 4.334	39.646 40.129	1.00 34.53 1.00 35.56 1.00 32.66	C

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1688 1699 1691 1692 1693 1694 1695 1696	CB VAL A 50 CG1 VAL A 50 CG2 VAL A 50 CA TYR A 50 CA TYR A 50 CB TYR A 50 CG TYR A 50 CG1 TYR A 50 C	5 38.378 5 36.618 6 37.031 6 36.127 6 34.753 6 33.713 6 36.730 6 35.776 6 35.249	1.166 0.016 1.636 2.914 3.630 2.987 3.680 3.510 3.844 5.129	40.914 41.335 42.077 38.422 37.526 37.622 37.734 36.113 34.993 34.853	1.00 42.03 1.00 41.96 1.00 41.40 1.00 38.81 1.00 37.76 1.00 33.11 1.00 30.18 1.00 39.43 1.00 36.84 1.00 40.40
MOTA	1698	CD2 TYR A 53	6 34.367	2.860	34.093	1.00 37.43
MOTA	1699	CE1 TYR A 53		5.418	33.812	1.00 37.67
ATOM ATOM	1700 1701	CE2 TYR A 53		3.147 4.430	33.062 32.910	1.00 36.97 1.00 41.30
ATOM	1702	OH TYR A 53		4.693	31.877	1.00 41.15
ATOM	1703	N ASP A 53		1.656	37.547	1.00 28.09
ATOM	1704	CA ASP A 53	7 33.513	0.889	37.580	1.00 31.30
ATOM	1705	C ASP A 53		0.696	39.012	1.00 29.04
ATOM	1706	O ASP A 53		-0.344	39.625	1.00 25.67
ATOM ATOM	1707 1708	CB ASP A 53 CG ASP A 53	7 33.576	-0.430 -1.027	36.807	1.00 35.55
ATOM	1709	OD1 ASP A 53	7 31.230	-0.697	36.548 37.278	1.00 42.06 1.00 35.88
MOTA	1710	OD2 ASP A 53		-1.830	35.593	1.00 44.18
MOTA	1711	N LEU A 53		1.690	39.496	1.00 27.09
ATOM	1712 1713	CA LEU A 53	8 31.736	1.612	40.853	1.00 25.60
ATOM ATOM	1714	C LEU A 53 O LEU A 53	8 30.667	0.503 0.038	41.053 42.199	1.00 23.74 1.00 24.81
ATOM	1715	CB LEU A 53		2.942	41.272	1.00 24.14
ATOM	1716	CG LEU A 53		4.155	41.069	1.00 23.55
ATOM	1717	CD1 LEU A 53	8 31.387	5.388	41.650	1.00 22.07
ATOM	1718	CD2 LEU A 53		3.877	41.706	1.00 25.28
MOTA	1719	N LEU A 53	9 29.991	0.086	40.044	1.00 24.40
ATOM	1720	CA LEU A 53		-1.035	40.197	1.00 25.24
ATOM	1721	C LEU A 53		-2.329	40.450	1.00 21.34
ATOM	1722	O LEU A 53	9 29.600	-3.010	41.403	1.00 27.46
ATOM	1723	CB LEU A 53		-1.180	38.970	1.00 22.82
ATOM	1724	CG LEU A 53	9 27.298	-2.427	38.999	1.00 25.22
MOTA	1725	CD1 LEU A 53		-2.463	40.212	1.00 23.54
MOTA	1726	CD2 LEU A 53		-2.512	37.687	1.00 26.32
ATOM	1727	N LEU A 54		-2.564	39.616	1.00 24.92
ATOM	1728	CA LEU A 54		-3.717	39.812	1.00 31.88
MOTA	1729	C LEU A 54	0 32.518	-3.655	41.163	1.00 30.52
MOTA MOTA	1730 1731	CB LEU A 54	0 32.829	-4.650 -3.697	41.875 38.666	1.00 33.31 1.00 29.45
ATOM	1732	CG LEU A 54		-4.865	38.710	1.00 37.60
ATOM	1733	CD1 LEU A 54		-6.206	38.876	1.00 36.10
ATOM	1734	CD2 LEU A 54	34.700	-4.809	37.449	1.00 39.88
ATOM	1735	N GLU A 54		-2.494	41.579	1.00 32.71
MOTA	1736	CA GLU A 54	33.658	-2.334	42.881	1.00 31.44
ATOM	1737	C GLU A 54		-2.709	44.015	1.00 30.48
ATOM	1738	O GLU A 54		-3.302	45.012	1.00 33.64
ATOM	1739	CB GLU A 54		-0.926	43.146	1.00 35.85
ATOM	1740	CG GLU A 54		-0.841	44.410	1.00 42.38
ATOM	1741 1742	CD GLU A 54	1 36.133	-1.934	44.373	1.00 47.06
ATOM ATOM	1743	OE1 GLU A 54 OE2 GLU A 54	1 36.120	-1.908 -2.860	43.484 45.210	1.00 46.54 1.00 53.26
ATOM	1744	N MET A 54		-2.244	43.953	1.00 25.53
ATOM	1745	CA MET A 54		-2.556	44.905	1.00 25.12
MOTA	1746	C MET A 54	30.201	-4.072	45.019	1.00 28.01
ATOM	1747	O MET A 54	2 30.232	-4.626	46.114	1.00 29.02
ATOM	1748	CB MET A 54	2 29.074	-1.863	44.632	1.00 23.97
ATOM	1749	CG MET A 54	2 27.112	-2.113	45.753	1.00 22.61
ATOM	1750	SD MET A 54		-3.597	45.520	1.00 27.90
MOTA	1751	CE MET A 54		-3.241	44.082	1.00 26.51
MOTA	1752	N LEU A 54		-4.730	43.893	1.00 27.93
ATOM	1753	CA LEU A 54	29.789	-6.177	43.882	1.00 37.51
ATOM	1754	C LEU A 54		-6.907	44.305	1.00 29.29
MOTA	1755	O LEU A 54	30.992	-8.002	44.851	1.00 40.69
ATOM	1756	CB LEU A 54	27, 999	-6.592	42.468	1.00 35.84
ATOM	1757	CG LEU A 54		-6.116	42.022	1.00 39.20
MOTA	1758	CD1 LEU A 54	27.844	-6.273	40.513	1.00 37.50
MOTA	1759	CD2 LEU A 54		-6.890	42.819	1.00 39.03
ATOM	1760 1761	N ASN A 54	32.251	-6.388	44.020	1.00 36.39
ATOM ATOM	1762	C ASN A 54	33.631	-7.147 -7.064	44.460 45.960	1.00 38.48 1.00 43.50
ATOM	1763	O ASN A 54		-8.067	46.657	1.00 42.84
ATOM	1764	CB ASN A 54		-6.686	43.612	1.00 45.08

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1765 1766 1767 1768 1770 1771 1772 1773 1774 1775 1776 1777	CG ASN A 544 OD1 ASN A 544 ND2 ASN A 544 N ALA A 545 CA ALA A 545 C ALA A 545 C ALA A 545 CB ALA A 545 CB ALA A 545 N HIS A 546 CA HIS A 546 C HIS A 546 C HIS A 546 CB HIS A 546 CB HIS A 546 CB HIS A 546 CB HIS A 546 CC HIS A 546 CD HIS A 546	34.582 -7.357 35.290 -6.838 33.838 -8.437 33.361 -5.926 33.453 -5.756 32.268 -6.193 32.444 -6.329 33.672 -4.257 31.048 -6.361 29.911 -6.714 29.653 -8.214 29.988 -8.799 28.664 -5.875 28.866 -4.431 28.295 -3.939 29.565 -3.435	42.246 41.385 42.089 46.585 48.021 48.848 50.078 48.315 48.386 49.206 49.109 48.073 48.914 49.329 50.481 48.771	1.00 44.51 1.00 51.67 1.00 51.31 1.00 40.45 1.00 38.08 1.00 37.95 1.00 47.01 1.00 36.01 1.00 31.25 1.00 32.20 1.00 38.99 1.00 34.48 1.00 35.48 1.00 37.29 1.00 34.54
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1781 1782 1783 1784 1785 1786 1787 1788 1789 1790 1791 1792 1793	CE1 HIS A 546 NE2 HIS A 546 N VAL A 547 CA VAL A 547 C VAL A 547 O VAL A 547 CB VAL A 547 CG1 VAL A 547 CG2 VAL A 547 N LEU A 548 C LEU A 548 O LEU A 548	28.660 -2.660 29.411 -2.339 29.150 -8.824 28.935 -10.273 27.450 -10.597 26.638 -9.875 29.786 -11.039 30.307 -10.158 29.123 -12.243 27.114 -11.681 25.729 -12.160	50.619 49.593 50.174 50.130 50.207 50.786 51.161 52.287 51.823 49.496 49.515 50.937 51.608	1.00 35.68 1.00 33.94 1.00 40.87 1.00 45.83 1.00 45.34 1.00 49.80 1.00 51.09 1.00 53.46 1.00 43.35 1.00 47.89 1.00 45.50 1.00 45.59
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1794 1795 1796 1797 1798 1799 1800 1801 1802 1803 1804 1805	CB LEU A 548 CG LEU A 548 CD1 LEU A 548 CD2 LEU A 548 N ALA A 549 CA ALA A 549 C ALA A 549 CB ALA A 549 CB ALA A 549 N LEU B 311 CA LEU B 311 C LEU B 311	25.612 -13.387 25.824 -13.036 26.029 -14.264 24.627 -12.232 24.188 -12.232 23.752 -12.624 22.623 -13.653 22.740 -14.402 23.319 -11.460	48.594 47.118 46.249 46.615 51.402	1.00 45.45 1.00 49.38 1.00 47.84 1.00 48.16 1.00 54.13 1.00 57.06
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1806 1807 1808 1809 1810 1811 1812 1813 1814 1815 1816	O SER B 312 CB SER B 312 OG SER B 312 N PRO B 313	1.699 22.603 -1.113 24.179 -0.946 23.904 0.472 21.378	12.449 11.976 11.127 11.641 10.268 12.505	1.00 35.73 1.00 32.95 1.00 33.74 1.00 36.98 1.00 34.94 1.00 33.54 1.00 35.91 1.00 31.76 1.00 28.79 1.00 37.81 1.00 44.53 1.00 33.20
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1818 1819 1820 1821 1822 1823 1824 1825 1826 1827 1828 1829 1830	CA PRO B 313 C PRO B 313 O PRO B 313 CB PRO B 313 CG PRO B 313 CD PRO B 313 N GLU B 314 CA GLU B 314 C GLU B 314 C GLU B 314 CB GLU B 314	1.160 20.130 1.374 19.809 2.500 19.515 0.272 19.093 -0.357 19.811 -0.571 21.235 0.350 19.829 0.570 19.471 1.575 20.360 2.441 19.927 -0.788 19.492 -0.667 19.284 -2.047 18.819	12.176 10.726 10.291 12.871 14.029 13.545 9.859 8.458 7.714 6.942 7.734 6.226 5.717	1.00 29.36 1.00 30.45 1.00 28.30 1.00 28.85 1.00 30.58 1.00 32.44 1.00 26.68 1.00 28.47 1.00 26.99 1.00 30.41 1.00 35.34 1.00 39.69 1.00 47.00
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1831 1832 1833 1834 1835 1836 1837 1838 1839 1840 1841	OE1 GLU B 314 OE2 GLU B 314 N GLN B 315 CA GLN B 315 C GLN B 315 O GLN B 315 CB GLN B 315 CG GLN B 315	-3.053 19.421 -2.071 17.867 1.475 21.643 2.343 22.653 3.763 22.592 4.698 22.770 1.778 24.030 2.781 25.134 2.388 26.515 3.047 27.482 1.343 26.636	6.148 4.941 7.937 7.352 7.945 7.183 7.722 7.527 7.980 7.546 8.806	1.00 48.55 1.00 44.66 1.00 26.38 1.00 29.68 1.00 31.40 1.00 27.97 1.00 34.22 1.00 45.77 1.00 56.80 1.00 59.90

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ATOM	1842	N	LEU B	316	3.844	22.320	9.266	1.00 26.87
MOTA	1843	CA		316	5.164	22.225	9.893	1.00 30.02
MOTA	1844	С		316	5.953	21.060	9.307	1.00 24.87
ATOM	1845	0		316	7.087	21.168	8.853	1.00 21.60
MOTA	1846	CB		316	5.082	22.171	11.419	1.00 30.22
ATOM	1847	CG CD1		316	6.448	22.132 23.196	12.151 11.647	1.00 29.83 1.00 36.85
MOTA MOTA	1848 1849			316 316	7.407 6.214	23.196	13.649	1.00 30.85
ATOM	1850	N N		317	5.214	19.911	9.164	1.00 31.20
ATOM	1851	CA	VAL B		5.910	18.754	8.555	1.00 25.93
ATOM	1852	C		317	6.283	19.026	7.095	1.00 26.19
ATOM	1853	0	VAL B	317	7.335	18.608	6.592	1.00 26.56
MOTA	1854	СВ	VAL B		4.963	17.536	8.651	1.00 23.20
MOTA	1855		VAL B		5.602	16.338	7.965	1.00 29.83
MOTA	1856		VAL B		4.725 5.366	17.198 19.711	10.129 6.374	1.00 24.89 1.00 26.44
ATOM ATOM	1857 1858	N CA	LEU B		5.715	20.004	4.961	1.00 25.44
ATOM	1859	C	LEU B		6.993	20.864	4.939	1.00 21.42
ATOM	1860	ō	LEU B		7.871	20.601	4.105	1.00 26.99
MOTA	1861	CB	LEU B	318	4.557	20.676	4.227	1.00 34.23
MOTA	1862	CG	LEU B		4.729	20.919	2.721	1.00 43.62
MOTA	1863	-	LEU B		5.709	19.980	2.035	1.00 43.77
ATOM	1864	CD2	LEU B		3.321	20.817	2.110	1.00 50.90
ATOM	1865	N	THR B		7.102 8.304	21.869 22.714	5.750 5.845	1.00 22.65 1.00 23.19
MOTA MOTA	1866 1867	CA C	THR B		9.527	21.880	6.190	1.00 24.51
ATOM	1868	o	THR B		10.600	22.022	5.587	1.00 22.04
ATOM	1869	СB		319	8.050	23.836	6.857	1.00 29.56
MOTA	1870	OG1		319	6.938	24.585	6.281	1.00 31.39
MOTA	1871	CG2		319	9.245	24.756	7.064	1.00 29.89
ATOM	1872	N		320	9.341	20.936	7.148	1.00 23.26
ATOM	1873	CA		320	10.491	20.067	7.476	1.00 21.50
ATOM	1874	C		320 320	10.894 12.092	19.211 19.033	6.299 6.062	1.00 22.15 1.00 24.21
ATOM ATOM	1875 1876	O CB		320	10.196	19.210	8.717	1.00 20.38
ATOM	1877	CG		320	9.900	19.993	9.996	1.00 23.03
ATOM	1878			320	9.548	19.072	11.165	1.00 25.32
MOTA	1879	CD2		320	11.194	20.775	10.338	1.00 27.97
MOTA	1880	N		321	9.926	18.679	5.537	1.00 23.98
ATOM	1881	CA		321 321	10.193 10.950	17.885 18.700	4.347 3.297	1.00 27.88, 1.00 24.23
ATOM ATOM	1882 1883	C		321	12.004	18.297	2.834	1.00 24.25
ATOM	1884	СВ		321	8.953	17.279	3.665	1.00 32.25
ATOM	1885	CG		321	9.444	16.095	2.797	1.00 42.62
ATOM	1886	CD1		321	9.195	14.790	3.529	1.00 40.89
ATOM	1887			321	8.963	16.136 19.962	1.372 3.117	1.00 44.42 1.00 26.19
ATOM ATOM	1888 1889	N CA	GLU B	322	10.584 11.273	20.866	2.204	1.00 20.19
ATOM	1890	C	GLU B		12.650		2.681	1.00 37.53
ATOM	1891	ŏ	GLU B		13.557	21.573	1.874	1.00 34.01
ATOM	1892	CB	GLU B	322	10.419	22.129	1.971	1.00 31.87
ATOM	1893	CG		322 .	9.136	21.886	1.212	1.00 45.26
ATOM	1894	CD		322	7.960	22.821	1.391 2.029	1.00 50.64 1.00 55.44
ATOM	1895 1896	OE1 OE2		322 322	8.076 6.862	23.889 22.498	0.866	1.00 53.44
ATOM ATOM	1897	N	ALA B		12.918	21.323	3.985	1.00 28.29
ATOM	1898	CA	ALA B		14.165	21.776	4.551	1.00 28.43
ATOM	1899	C	ALA B		15.262	20.723	4.563	1.00 23.34
ATOM	1900	0	ALA B		16.407	21.056	4.918	1.00 23.98
MOTA	1901	СВ	ALA B		13.897	22.348	5.942	1.00 29.41
ATOM	1902	N	GLU B GLU B		14.960 15.866	19.516 18.397	4.168 4.182	1.00 23.45 1.00 23.91
ATOM ATOM	1903 1904	CA C	GLU B		17.077	18.646	3.323	1.00 27.63
ATOM	1905	Ö	GLU B		16.940	19.001	2.143	1.00 25.43
ATOM	1906	СВ	GLU B		15.176	17.118	3.748	1.00 26.75
MOTA	1907	CG	GLU B	324 ·	14.482	16.319	4.833	1.00 30.12
MOTA	1908	CD	GLU B		15.459	15.784	5.884	1.00 27.37 1.00 27.33
ATOM	1909	OE1			15.687 15.984	16.472 14.678	6.899 5.715	1.00 27.33
ATOM ATOM	1910 1911	OE2 N	PRO B		18.260	18.474	3.861	1.00 32.31
ATOM	1912	CA	PRO B		19.459	18.676	3.077	1.00 30.04
ATOM	1913	C	PRO B	325	19.550	17.819	1.827	1.00 27.05
MOTA	1914	0	PRO B		19.174	16.649	1.832	1.00 30.82
ATOM	1915	CB	PRO B		20.579	18.211	4.025 5.394	1.00 33.29 1.00 32.61
ATOM ATOM	1916 1917	CG CD	PRO B		20.014 18.528	18.290 18.063	5.279	1.00 32.81
MOTA	1918	N	PRO B		20.333	18.312	0.858	1.00 31.94
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ATOM ATOM ATOM	1919 1920 1921 1922	CA C O	PRO B PRO B PRO B	326 326	20.577 21.499 22.182	17.563 16.404 16.514	-0.370 -0.021 1.023	1.00 34.47 1.00 36.74 1.00 28.88
ATOM ATOM	1923	CB CG	PRO B	326	21.322 21.992	18.603 19.512	-1.220 -0.229	1.00 33.99 1.00 36.09
MOTA MOTA	1924 1925	CD N	PRO B		20.811 21.672	19.708 15.369	0.745 -0.845	1.00 31.99 1.00 33.12
ATOM ATOM	1926 1927	CA C	HIS B		22.639 24.059	14.326	-0.519	1.00 35.27
MOTA	1928	Ö	HIS B	327	24.280	14.891 15.813	-0.698 -1.510	1.00 34.67 1.00 30.20
ATOM ATOM	1929 1930	CB CG	HIS B		22.500 21.173	13.130 12.440	-1.458 -1.478	1.00 44.84 1.00 52.21
MOTA	1931	ND1	HIS B	327	20.053	13.005	-2.048	1.00 56.60
MOTA MOTA	1932 1933		HIS B		20.780 19.026	11.225 12.173	-1.026 -1.943	1.00 53.45 1.00 58.32
ATOM ATOM	1934 1935	NE2 N	HIS B	327 328	19.450 24.998	11.084 14.343	-1.326	1.00 55.20
MOTA	1936	CA	VAL B	328	26.407	14.756	0.058 -0.017	1.00 26.84 1.00 29.87
MOTA MOTA	1937 1938	C O		328 328	27.150 26.920	13.684 12.470	-0.834 -0.768	1.00 35.70 1.00 37.59
ATOM ATOM	1939 1940	CB CC1	VAL B	328	27.102	14.983	1.329	1.00 38.42
MOTA	1941		VAL B	328 328	28.608 26.570	15.126 16.241	1.202 2.013	1.00 40.42 1.00 36.69
MOTA MOTA	1942 1943	N CA	LEU B	329 329	28.108 28.901	14.161 13.208	-1.629 -2.428	1.00 31.23 1.00 36.50
ATOM	1944	C	LEU B	329	30.317	13.139	-1.856	1.00 33.10
MOTA MOTA	1945 1946	O CB		329 329	30.967 29.040	14.166 13.675	-1.773 -3.866	1.00 27.72 1.00 39.45
MOTA MOTA	1947 1948	CG CD1		329 329	27.970 28.564	14.691 15.941	-4.259 -4.921	1.00 45.22 1.00 51.61
ATOM	1949	CD2	LEU B	329	26.920	14.056	-5.142	1.00 48.87
MOTA MOTA	1950 1951	N CA	ILE B		30.704 32.040	11.973 11.727	-1.413 -0.878	1.00 32.02 1.00 31.90
MOTA MOTA	1952 1953	C	ILE B	330 330	32.277 31.317	10.263 9.475	-1.213 -1.174	1.00 30.64 1.00 29.62
MOTA	1954	CB	ILE B	330	32.173	12.091	0.599	1.00 31.89
ATOM ATOM	1955 1956	CG1 CG2			33.622 31.427	12.184 11.097	1.039 1.485	1.00 38.77 1.00 34.48
ATOM ATOM	1957 1958	CD1 N	ILE B SER B		33.898 33.481	12.836 9.916	2.371 -1.636	1.00 36.86
MOTA	1959	CA	SER B	331	33.763	8.514	-1.991	1.00 30.39 1.00 30.31
ATOM ATOM	1960 1961	C O	SER B		34.935 35.624	8.017 8.891	-1.147 -0.621	1.00 28.82 1.00 33.08
ATOM ATOM	1962 1963	CB OG	SER B SER B		34.269 33.205	8.445 8.676	-3.451	1.00 36.40
MOTA	1964	N	ARG B	332	35.193	6.727	-4.372 -1.123	1.00 34.39
ATOM ATOM	1965 1966	CA C	ARG B		36.381 37.630	6.242 6.760	-0.407 -1.111	1.00 39.40 1.00 40.89
ATOM ATOM	1967 1968	O CB		332	37.532 36.419	7.090 4.737	-2.301 -0.540	
MOTA	1969	CG	ARG B	332	35.191	4.031	-0.039	1.00 35.40
ATOM ATOM	1970 1971	CD NE	ARG B		35.310 34.175	2.524 1.914	-0.298 0.457	1.00 36.04 1.00 32.43
ATOM ATOM	1972 1973	CZ	ARG B	332	34.484 33.409	1.239	1.581	1.00 32.86 1.00 31.12
ATOM	1974	NH2	ARG B	332	35.717	0.729 1.083	2.207 2.019	1,00 32.26
ATOM ATOM	1975 1976	N CA	PRO B		38.740 39.982	6.812 7.270	-0.404 -0.991	1.00 40.15 1.00 42.44
ATOM ATOM	1977 1978	C	PRO B		40.526 40.051	6.211 5.063	-1.943 -1.909	1.00 44.51 1.00 35.65
MOTA	1979	CB	PRO B	333	40.896	7.440	0.226	1.00 43.67
ATOM ATOM	1980 1981	CG CD	PRO B		40.351 38.860	6.524 6.418	1.268 1.019	1.00 43.95 1.00 40.70
ATOM ATOM	1982 1983	N CA	SER B		41.467 42.086	6.565 5.532	-2.811 -3.662	1.00 47.81 1.00 53.70
MOTA	1984	C	SER B	334	43.193	4.987	-2.730	1.00 54.54
ATOM ATOM	1985 1986	O CB	SER B		44.018 42.770	5.795 6.035	-2.305 -4.912	1.00 57.51 1.00 59.20
ATOM ATOM	1987 1988	OG N	SER B ALA B	334	41.981 43.218	6.749 3.740	-5.830 -2.366	1.00 62.84 1.00 57.13
MOTA	1989	CA	ALA B	335	44.189	3.118	-1.471	1.00 57.19
ATOM ATOM	1990 1991	С 0	ALA B		43.368 42.285	2.447 2.954	-0.371 -0.070	1.00 56.88 1.00 59.11
ATOM ATOM	1992 1993	CB N	ALA B PRO B	335	45.256 43.786	4.037	-0.895 0.173	1.00 51.31 1.00 57.85
ATOM	1994	CA	PRO B	336	43.002	0.675	1.230	1.00 50.78
ATOM	1995	С	PRO B	336	42.779	1.635	2.383	1.00 44.37

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	96789900123456789001223222222222222222222222222222222222	CCCCNCCOCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	GLU B 339 GLU B 340 ALA B 340 ALA B 340 ALA B 341 SER B 341 SER B 341 SER B 341 SER B 342 MET B 343 MET B 343 MET B 343 MET B 343 MET B 344		35.507 39.548 39.185 39.016 38.115 40.149 39.976 38.316 38.164 39.885 39.791 38.474 37.846 40.955 40.791 42.354 42.354 36.777	8.937 7.985 8.206 7.917 8.573 7.515 6.743 7.939 8.386 5.487 5.604 8.487 5.656 3.1422 9.5811 11.634 9.5821 11.925 11.925 11.925 11.925 11.935 11.	8.974 9.265 10.107 9.212 9.360 11.247 12.342 13.402 8.218 7.260 6.502 6.324 6.239 5.182 4.341 5.241 6.034 5.342	1.00 27.38 1.00 29.36 1.00 29.72 1.00 29.01 1.00 26.99 1.00 27.11 1.00 24.98 1.00 23.68 1.00 23.31 1.00 25.29 1.00 27.55 1.00 27.66 1.00 29.65 1.00 24.67 1.00 21.01 1.00 24.43 1.00 22.35 1.00 21.63 1.00 25.68 1.00 24.93 1.00 25.48 1.00 25.48 1.00 25.48 1.00 29.94 1.00 29.94 1.00 29.94 1.00 29.94 1.00 29.94 1.00 29.94 1.00 35.41 1.00 21.31 1.00 23.23
ATOM ATOM	2061 2062	CE N	MET B 344 SER B 345	·	42.937 38.043	14.787 10.785	5.241 6.034 5.342 6.253 5.801 4.793 3.814 7.497	1.00 35.41 1.00 21.31

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	20775 20776 20777 20777 20777 20777 20778 20088 20088 20088 20088 200999 200999 200999 200999 200999 200999 200999 20099	CG LEU B 346 CD1 LEU B 346 CD2 LEU B 346 CD2 LEU B 346 N THR B 347 CA THR B 347 O THR B 347 OG1 THR B 347 CG2 THR B 347 CG2 THR B 347 CG2 THR B 347 CG2 THR B 348 CA LYS B 348 CA LYS B 348 CA LYS B 348 CB LYS B 348 CB LYS B 348 CC LYS B 349 CA LEU B 349 CD1 LEU B 349 CD2 LEU B 349 CD2 LEU B 349 CD3 CA ALA B 350 CA ALA B 350 CA ALA B 350 CA ASP B 351 CA LYS B 352 CC LYS B 353 CC GLU B 353	34.561 33.157 35.528 35.528 36.8391 36.8391 35.551 36.8391 36.851 36.0153 36.0153 36.0153 37.6415 37.6615 37.6	7.966 8.187 14.591 15.475 16.491 16.491 16.2339 11.15.772 16.2339 11.15.945 16.22339 11.15.945 16.22339 11.15.945 11	$\begin{array}{c} 10.765624247766001116.555.43248050706600553999 \\ 10.765624247773840550706600533200.553274402144667.5554.66277.656.667.7765.660053999 \\ 11.67627738405507066002111.66.7766002111.66.77765.660002111.66.77765.660002111.66.77765.660002111.66.77765.660002111.66.77765.660002111.66.77765.660002111.66.77765.660002111.66.77765.660002111.66.77765.660002111.66.77765.660002111.6600002111.660002111.660002111.660002111.660002111.660002111.660002111.660002111.660002111.660002111.6600021111.6600021111.6600021111.6600021111.6600021111.66000021111.66000021111.66000021111.66000021111.66000021111.66000021111.660000021111.660000000000$	1.00 24.42 1.00 28.57 1.00 29.99 1.00 19.84 1.00 24.67 1.00 23.31 1.00 24.67 1.00 24.67 1.00 24.77 1.00 23.61 1.00 24.49 1.00 24.18 1.00 24.18 1.00 24.18 1.00 25.26 1.00 25.26 1.00 25.26 1.00 25.26 1.00 23.65 1.00 23.65 1.00 23.65 1.00 23.65 1.00 23.65 1.00 29.57 1.00 19.40 1.00 19.41 1.00 21.18 1.00 19.63 1.00 19.41 1.00 21.18 1.00 23.65 1.00 23.66 1.00 23.16 1.00 23.16 1.00 23.16 1.00 24.38 1.00 23.62 1.00 24.38 1.00 29.71 1.00 24.38 1.00 29.71 1.00 24.38 1.00 29.55 1.00 24.45 1.00 23.64 1.00 23.64 1.00 20.33 1.00 20.33	
ATOM ATOM ATOM ATOM	2136 2137 2138 2139 2140 2141	CG LEU B 354 CD1 LEU B 354 CD2 LEU B 354 N VAL B 355	29.000 30.374 27.921 27.823	19.896 20.090 20.070 22.335	10.630 11.265 11.703 6.779	1.00 20.09 1.00 17.36 1.00 20.87 1.00 19.23	
ATOM	2149	O HIS B 356	21.981	22.450	6.206	1.00 21.28	

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2166 2166 2166 2167	CG HIS ND1 HIS CD2 HIS CE1 HIS NE2 HIS N MET CA MET C MET C MET CG MET CG MET SD MET CE MET CC MET C M	В 356 В 356	23.798 24.325 23.899 25.144 24.458 25.197 23.731 22.903 22.497 21.409 23.662 22.815 23.835 24.212 23.412 23.064 21.879 20.931 24.241	20.750 20.826 21.870 20.064 21.758 20.667 21.675 21.723 23.152 23.360 21.090 20.946 20.185 18.588 24.115 25.523 25.523 26.456	4.290 2.886 2.082 2.136 0.892 0.903 7.431 8.643 8.985 9.509 9.825 11.072 12.386 11.655 8.842 9.127 8.795 8.781	1.00 22.36 1.00 34.11 1.00 37.17 1.00 35.97 1.00 41.58 1.00 20.58 1.00 22.73 1.00 24.13 1.00 21.21 1.00 20.64 1.00 22.76 1.00 19.26 1.00 23.13 1.00 22.55 1.00 22.86 1.00 22.86 1.00 20.28 1.00 20.28 1.00 23.07 1.00 25.27
ATOM ATOM ATOM ATOM ATOM	2169 2170 2171 2172 2173	CG1 ILE CG2 ILE CD1 ILE N SER	В 358 В 358	25.478 23.830 25.384 21.972 20.842	26.169 27.946 26.213 25.693 26.052	9.603 9.041 11.077 6.950 6.068	1.00 23.65 1.00 24.03 1.00 23.64 1.00 22.49 1.00 24.30
ATOM ATOM ATOM ATOM ATOM	2174 2175 2176 2177 2178	C SER O SER CB SER OG SER	B 359 B 359 B 359 B 359 B 360	19.550 18.511 21.031 22.272 19.559	25.362 26.007 25.794 26.354 24.067	6.492 6.473 4.560 4.169 6.810	1.00 23.34 1.00 23.51 1.00 30.58 1.00 37.98 1.00 19.52
ATOM ATOM ATOM ATOM ATOM	2179 2180 2181 2182 2183	C TRP O TRP CB TRP CG TRP	B 360 B 360 B 360 B 360	18.403 17.853 16.636 18.754 17.855 16.645	23.362 24.045 24.272 21.889 21.145 20.604	7.307 8.542 8.688 7.625 8.551 8.179	1.00 21.70 1.00 23.01 1.00 21.40
MOTA MOTA MOTA MOTA MOTA MOTA MOTA	2184 2185 2186 2187 2188 2189	CD1 TRP CD2 TRP NE1 TRP CE2 TRP CE3 TRP CZ2 TRP	B 360 B 360 B 360 B 360	18.032 16.043 16.885 19.033 16.711	20.823 19.988 20.113 21.075 19.580	9.939 9.280 10.352 10.873 11.641	
MOTA MOTA MOTA MOTA	2190 2191 2192 2193 2194	CZ3 TRP CH2 TRP N ALA CA ALA C ALA	B 360 B 360 B 361 B 361 B 361	18.880 17.725 18.711 18.209 17.544	20.573 19.859 24.302 24.862 26.215	12.184 12.534 9.535 10.782 10.542	1.00 19.70 1.00 18.29 1.00 19.80 1.00 19.54 1.00 24.20
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2195 2196 2197 2198 2199 2200	CB ALA N LYS CA LYS C LYS	B 361 B 361 B 362 B 362 B 362 B 362	16.518 19.298 18.144 17.525 16.166 15.389	26.490 24.976 27.014 28.297 28.178 29.173	11.134 11.820 9.638 9.321 8.665 8.663	1.00 22.57 1.00 19.50 1.00 21.91 1.00 26.89 1.00 26.81 1.00 28.44
MOTA MOTA MOTA MOTA	2201 2202 2203 2204 2205	CB LYS CG LYS CD LYS CE LYS NZ LYS	B 362 B 362 B 362 B 362 B 362	18.501 19.611 20.665 20.241 21.058	29.050 29.591 30.388 31.816 32.445	8.378 9.321 8.556 8.263 7.174	1.00 26.95 1.00 31.89 1.00 36.74 1.00 38.32 1.00 40.64
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2206 2207 2208 2209 2210 2211	CA LYS C LYS O LYS CB LYS	B 363 B 363 B 363 B 363 B 363	15.821 14.518 13.451 12.281 14.619 15.615	27.028 26.860 26.373 26.308 25.913 26.489	8.119 7.486 8.469 8.042 6.297 5.273	1.00 21.94 1.00 25.35 1.00 29.06 1.00 29.31 1.00 22.51 1.00 25.76
ATOM ATOM ATOM ATOM ATOM	2212 2213 2214 2215 2216	CD LYS CE LYS NZ LYS N ILE CA ILE	B 363 B 363 B 363 B 364 B 364	15.698 16.603 16.953 13.808 12.773	25.515 26.053 24.999 26.069 25.623	4.094 3.000 2.007 9.684 10.671	1.00 32.07 1.00 34.68 1.00 44.70 1.00 27.38 1.00 29.33
MOTA MOTA MOTA MOTA MOTA MOTA	2217 2218 2219 2220 2221 2222	O ILE CB ILE		12.047 12.650 13.395 13.941 12.345 14.792	26.864 27.796 24.857 23.545 24.497 22.804	11.142 11.673 11.834 11.255 12.901 12.242	1.00 30.86 1.00 29.37 1.00 27.92 1.00 35.56 1.00 31.49 1.00 32.74
MOTA MOTA MOTA MOTA MOTA	2222 2223 2224 2225 2226	N PRO CA PRO C PRO	B 365 B 365 B 365 B 365	10.733 9.941 10.292 10.314	26.896 28.056 28.581 27.858	12.242 10.963 11.322 12.695 13.686	1.00 34.82 1.00 36.62 1.00 31.74 1.00 32.94

ATOM	2227	СВ	PRO B	365	8.495	27.578	11.208	1.00 34.89
ATOM	2228	CG	PRO B	365	8.540	26.408	10.293	1.00 37.43
ATOM ATOM	2229 2230	CD N		365 366	9.903 10.626	25.808 29.867	10.380 12.731	1.00 36.52 1.00 35.19
ATOM	2231	CA		366	10.960	30.546	13.971	1.00 35.04
ATOM ATOM	2232 2233	С О		366 366	12.397 12.818	30.406 31.122	14.442 15.344	1.00 36.83 1.00 32.74
ATOM	2234	N	PHE B	367	13.209	29.505	13.848	1.00 31.04
ATOM ATOM	2235 2236	CA C		367 367	14.576 15.347	29.367 30.679	14.330 14.151	1.00 28.81 1.00 27.63
MOTA	2237	0		367	16.041	31.071	15.087	1.00 29.57
ATOM ATOM	2238 2239	CB CG		367 367	15.320 16.726	28.235 28.000	13.611 14.123	1.00 29.68 1.00 27.93
ATOM	2240	CD1 CD2		367 367	16.930	27.180	15.194 13.513	1.00 28.07
MOTA MOTA	2241 2242	CE1		367	17.821 18.209	28.601 26.951	15.704	1.00 26.67 1.00 29.07
ATOM ATOM	2243 2244	CE2 CZ		367 367	19.097 19.315	28.356 27.524	13.981 15.089	1.00 24.62 1.00 24.18
ATOM	2245	N	VAL B	368	15.198	31.350	13.010	1.00 24.18
MOTA MOTA	2246 2247	CA C		368 368	15.932 15.405	32.593 33.752	12.778 13.626	1.00 33.70 1.00 36.58
ATOM	2248	0	VAL B	368	16.049	34.803	13.614	1.00 37.80
MOTA MOTA	2249 2250	CB CG1		368 368	15.910 16.690	33.003 32.000	11.301 10.443	1.00 32.36 1.00 34.27
MOTA	2251	CG2	VAL B	368	14.475	33.098	10.777	1.00 38.21
ATOM ATOM	2252 2253	N CA		369 369	14.302 13.715	33.609 34.607	14.325 15.203	1.00 38.63 1.00 43.96
ATOM	2254	С	GLU B	369	14.224	34.433	16.625	1.00 45.39
ATOM ATOM	2255 2256	O CB		369 369	13.893 12.190	35.211 34.521	17.524 15.182	1.00 43.91 1.00 50.15
ATOM ATOM	2257 2258	CG CD		369 369	11.644 10.217	34.939 34.475	13.823 13.615	1.00 56.65 1.00 60.83
ATOM	2259	OE1		369	9.519	34.182	14.605	1.00 62.32
ATOM ATOM	2260 2261	OE2 N		369 370	9.811 14.973	34.400 33.349	12.434 16.842	1.00 63.35 1.00 38.98
ATOM	2262	CA	LEU B	370	15.622	33.121	18.115	1.00 35.51
ATOM ATOM	2263 2264	C		370 370	16.828 17.353	34.093 34.493	18.159 17.120	1.00 34.78 1.00 36.72
MOTA	2265	CB	LEU B	370	16.152	31.688	18.280	1.00 33.38
ATOM ATOM	2266 2267	CG CD1		370 370	15.046 15.690	30.619 29.241	18.367 18.490	1.00 33.47 1.00 33.96
MOTA	2268	CD2	LEU B	370	14.042	30.909	19.489	1.00 31.83
ATOM ATOM	2269 2270	N CA		371 371	17.257 18.406	34.414 35.290	19.362 19.526	1.00 36.47 1.00 36.59
ATOM ATOM	2271 2272	C O		371 371	19.642 19.671	34.602 33.352	18.968 18.929	1.00 38.96 1.00 33.42
MOTA	2273	CB	SER B	371	18.660	35.563	21.010	1.00 36.21
ATOM ATOM	2274 2275	OG N	SER B LEU B		19.276 20.661	34.476 35.404	21.679 18.625	1.00 34.10 1.00 32.71
MOTA	2276	CA	LEU B	372	21.898	34.838	18.130	1.00 29.93
ATOM ATOM	2277 2278	C	LEU B		22.467 23.071	33.829 32.823	19.087 18.709	1.00 29.34 1.00 32.54
MOTA	2279	CB	LEU B	372	22.919	35.966	17.938	1.00 34.52
ATOM ATOM	2280 2281	CG CD1	LEU B LEU B		24.270 24.186	35.675 34.767	17.321 16.098	1.00 37.48 1.00 37.75
ATOM ATOM	2282 2283		LEU B PHE B	372 .	24.881 22.498	37.017 34.206	16.879 20.393	1.00 43.32 1.00 28.95
MOTA	2284	CA	PHE B		23.087	33.272	21.358	1.00 33.97
ATOM ATOM	2285 2286	CO	PHE B		22.304 22.960	31.967 30.926	21.429 21.545	1.00 29.91 1.00 29.72
MOTA	2287	CB	PHE B	373	23.265	33.954	22.720	1.00 37.52
ATOM ATOM	2288 2289	CG CD1	PHE B		24.325 25.146	35.046 35.196	22.637 21.539	1.00 41.67 1.00 46.80
ATOM	2290	CD2	PHE B	373	24.528	35.901	23.707	1.00 46.96
ATOM ATOM	2291 2292		PHE B PHE B		26.109 25.492	36.176 36.899	21.462 23.645	1.00 49.01 1.00 46.70
ATOM ATOM	2293 2294	CZ N	PHE B ASP B		26.278 20.973	37.025 32.048	22.527 21.348	1.00 46.90 1.00 31.02
MOTA	2295	CA	ASP B	374	20.191	30.812	21.427	1.00 31.49
ATOM ATOM	2296 2297	C 0	ASP B ASP B		20.446 20.678	29.964 28.765	20.153 20.260	1.00 33.16 1.00 28.96
ATOM	2298	CB	ASP B	374	18.706	31.023	21.603	1.00 31.44
ATOM ATOM	2299 2300	CG OD1	ASP B ASP B		18.273 19.090	31.344 31.228	23.033 23.962	1.00 36.83 1.00 43.81
MOTA MOTA	2301 2302	OD2 N	ASP B GLN B		17.094 20.495	31.748 30.611	23.160 19.008	1.00 39.45 1.00 29.43
ATOM	2302	CA	GLN B		20.774	29.839	17.775	1.00 28.70

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2304 2305 2306 2307 2308 2310 2311 2312 2313 2314 2315 2316 2317 2318 2320 2321			3 375 3 375 3 375 3 375 3 375 3 375 3 376 3 376 3 376 3 376 3 377 3 377		22.083 22.174 20.788 19.398 19.409 20.055 18.679 23.156 24.475 24.563 25.224 25.541 26.921 25.523 23.908 24.042 23.297 23.788	29.093 27.926 30.768 31.276 32.132 31.841 33.254 29.788 29.788 29.7136 30.309 29.701 31.331 28.345 27.26 27.136	17.902 17.537 16.555 16.157 14.909 13.902 14.933 18.273 18.273 18.273 19.479 19.230 18.686 18.752 17.536 20.632 21.626 21.143 21.450	1.00 28.91 1.00 24.32 1.00 25.04 1.00 26.15 1.00 31.28 1.00 33.19 1.00 34.93 1.00 26.24 1.00 24.86 1.00 27.38 1.00 28.98 1.00 32.68 1.00 30.22 1.00 24.35 1.00 25.87 1.00 25.08	
ATOM ATOM ATOM	2322 2323 2324	CB CG CD	ARG E	377 377		23.560 22.067 21.449	27.650 27.918 27.510	23.028 23.037 24.366	1.00 33.86 1.00 34.88 1.00 47.44	
ATOM ATOM ATOM	2325 2326 2327	NE CZ NH1	ARG E ARG E	377		20.176 19.171 18.060	28.177 27.713 28.424	24.596 25.323 25.451	1.00 49.34 1.00 51.60 1.00 52.27	
ATOM ATOM	2328 2329	N	ARG E	378		19.257 22.163	26.509 26.167	25.900 20.499	1.00 53.69 1.00 21.68	
MOTA MOTA	2330 2331	CA C	LEU E	378		21.460 22.314	24.947 24.160	20.012 19.032	1.00 20.41 1.00 21.16	
ATOM ATOM	2332 2333	O CB	LEU E	378		22.467	22.933 25.303	19.106 19.394	1.00 20.81 1.00 24.70	
ATOM ATOM	2334		LEU E	378		19.087	25.959 26.231	20.354 19.595	1.00 27.24 1.00 31.14	
ATOM ATOM	2336 2337	N	LEU E	379		18.810	25.096 24.882	21.555 18.050	1.00 27.64 1.00 24.82	
ATOM ATOM	2338 2339	CA C	LEU E	379		23.728	24.202 23.625	17.033 17.606	1.00 20.15 1.00 20.62	
ATOM ATOM	2340 2341	O CB	LEU B	379		25.339 24.073	22.469 25.249	17.307 15.953	1.00 20.65 1.00 23.91	
ATOM ATOM	2342		LEU B	379		22.907	25.518 26.790	14.998 14.196	1.00 27.86 1.00 26.74,	
ATOM ATOM	2344	N	LEU B	380		22.716 25.609	24.332 24.340	14.054 18.583	1.00 30.30 1.00 20.83	
ATOM ATOM	2346 2347	CA C	GLU B	380		26.837 26.566	23.816	19.195 19.997	1.00 27.24 1.00 25.34	
ATOM ATOM ATOM	2348 2349 2350	O CB	GLU B GLU B	380		27.398 27.454	21.656 24.857 24.298	20.096	1.00 28.66 1.00 35.51	
ATOM ATOM	2351 2352	CG CD	GLU B	380		28.304 27.717 26.687	23.925	21.268 22.601 23.075	1.00 45.36 1.00 52.55 1.00 55.73	
ATOM ATOM	2353 2354		GLU B SER B	380		28.296 25.400	23.028 22.493	23.260 20.619	1.00 53.73 1.00 58.84 1.00 19.01	
ATOM ATOM	2355 2356	CA C	SER B	381		25.400 25.074 24.624	21.322	21.439 20.669	1.00 13.01 1.00 23.22 1.00 24.76	
ATOM ATOM	2357 2358	O CB	SER B	381		24.823 23.905	18.963 21.791	21.145 22.336	1.00 24.70 1.00 27.36 1.00 28.20	
ATOM ATOM	2359 2360	OG N	SER B	381		23.489	20.648	23.074 19.529	1.00 38.79 1.00 23.25	
ATOM ATOM	2361 2362	CA C	CYS B	382		23.404 24.073	19.066 18.600	18.844 17.567	1.00 22.65 1.00 20.33	
ATOM ATOM	2363 2364	O CB	CYS B	382		23.538 21.960	17.569 19.551	17.123 18.367	1.00 17.89 1.00 21.13	
MOTA MOTA	2365 2366	SG N	CYS B			21.899 25.182	20.543 19.230	16.890 17.120	1.00 23.58 1.00 20.02	
ATOM ATOM	2367 2368	CA C	TRP B	383		25.567 25.893	18.848 17.398	15.756 15.544	1.00 20.25 1.00 18.10	
ATOM ATOM	2369 2370	O CB	TRP B	383		25.465 26.621	16.824 19.831	14.535 15.176	1.00 16.94 1.00 15.50	
ATOM ATOM	2371 2372		TRP B	383		27.931 28.297	19.774 20.590	15.903 16.947	1.00 21.30 1.00 22.04	
ATOM	2373 2374	NE1	TRP B	383		29.040 29.577	18.897 20.278	15.667 17.340	1.00 21.19 1.00 23.74	
ATOM ATOM	2375 2376	CE2 CE3	TRP B	383.		30.039	19.223 17.851	16.606 14.766	1.00 24.97 1.00 20.19	
ATOM ATOM	2377 2378	CZ3	TRP B	383	:	31.274	18.571 17.160	16.630 14.825	1.00 20.39 1.00 21.36	
ATOM ATOM	2379 2380	CH2 N	TRP B MET B			31.458 26.697	17.535 16.818	15.771 16.461	1.00 21.33 1.00 14.48	

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ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	12322222222222222222222222222222222222	CO CC C	METT THE BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	3884444445555555555666666677777778888888888	21.392 20.834 22.525 23.183 22.302 22.250 24.496 25.207 25.705 26.375 21.655 20.773 19.598 19.317 20.246 21.386 20.748 22.377	15.3914.3914.3914.3914.3914.3914.3914.3914	9.195 8.340 9.795 9.465 9.027 10.207 10.253 8.831 11.212 10.935 11.304 10.367 9.923 12.746 13.746 13.7414 16.202	1.00 14.60 1.00 13.50 1.00 18.83 1.00 18.83 1.00 21.33 1.00 23.47 1.00 15.97 1.00 15.88 1.00 17.29 1.00 24.52 1.00 24.52 1.00 26.25 1.00 22.77 1.00 24.52 1.00 16.32 1.00 16.32 1.00 17.16 1.00 18.55 1.00 19.24 1.00 15.69 1.00 17.40 1.00 17.21 1.00 21.51 1.00 17.21 1.00 22.83 1.00 21.80 1.00 22.44 1.00 21.16 1.00 22.42 1.00 23.62 1.00 24.52 1.00 23.62 1.00 23.62 1.00 23.62 1.00 23.62 1.00 23.72 1.00 23.83 1.00 23.62 1.00 24.52 1.00 23.72 1.00 23.83 1.00 23.62
ATOM ATOM ATOM	2444 2445 2446	CB CG SD CE N CA C O CB CG CD1 CD2 NE1	MET B 3 MET B 3 MET B 3	92 92 92 93 93 93 93 93 93 93	20.246 21.386 20.748	6.277 6.151 6.520 6.498 7.099 6.961 6.485 5.623 8.374 8.471	12.746 13.732 15.414	1.00 23.62 1.00 24.52 1.00 28.58

ATOM ATOM ATOM	2458 2459 2460	CE3 CZ2 CZ3	TRP B 3 TRP B 3	393 393	14.267 13.124 13.010	7.037 7.673 6.566	8.657 6.163 8.295	1.00	24.75 28.29 27.11	
ATOM ATOM ATOM	2461 2462 2463	CH2 N CA	TRP B 3 ARG B 3	394	12.460 19.505 20.018	6.901 6.966 6.491	7.048 7.186 5.889	1.00	27.45 23.13 24.56	
MOTA MOTA	2464 2465	C 0	ARG B 3	394 394	20.358 20.390	5.007 4.287	5.979 4.973	1.00	26.56 29.56	
ATOM ATOM ATOM	2466 2467 2468	CB CG CD	ARG B 3 ARG B 3	394	21.306 21.074 22.315	7.218 8.645 9.317	5.445 4.950 4.420	1.00	23.42 23.53 26.61	
ATOM ATOM	2469 2470	NE CZ	ARG B 3	394 394	23.421 23.630	9.413 10.344	5.344 6.297	1.00	23.76 25.92	
ATOM ATOM	2471 2472	NH2	ARG B 3 ARG B 3 SER B 3	394	22.726 24.719	11.331	6.457 7.022	1.00	22.67	
ATOM ATOM ATOM	2473 2474 2475	N CA C	SER B 3 SER B 3	395	20.764 21.176 20.068	4.502 3.121 2.181	7.115 7.281 7.720	1.00	23.85 23.86 24.73	
ATOM ATOM	2476 2477	O CB	SER B 3	395 395	20.347 22.242	1.019	7.877 8.389	1.00	30.38 25.71	
ATOM ATOM ATOM	2478 2479 2480	OG N CA	SER B 3 ILE B 3 ILE B 3	396	23.323 18.834 17.781	3.973 2.641 1.858	8.015 7.857 8.483	1.00	27.34 26.38 28.13	
ATOM ATOM	2481 2482	C 0	ILE B 3	396 396	17.402 17.107	0.603 -0.388	7.714 8.375	1.00	34.05 36.61	
ATOM ATOM ATOM	2483 2484 2485	CB CG1 CG2		396	16.621 15.694 15.806	2.803 2.324 3.086	8.794 9.911 7.517	1.00	31.52 35.64 35.73	
ATOM ATOM	2486 2487	CD1 N	ILE B 3 ASP B 3	396 397	14.689 17.500	3.407 0.642	10.306 6.395	1.00 1.00	34.63 30.79	
ATOM ATOM ATOM	2488 2489 2490	CA C O	ASP B 3 ASP B 3	397	17.150 18.390 18.306	-0.561 -1.323 -2.164	5.623 5.207 4.290	1.00	35.31 39.39 41.34	
ATOM ATOM	2491 2492	CB CG	ASP B 3	397 397	16.327 14.950	-0.097 0.392	4.413 4.797	1.00 1.00	36.48 38.41	
ATOM ATOM ATOM	2493 2494 2495		ASP B 3 ASP B 3 HIS B 3	397	14.307 14.411 19.565	-0.118 1.326 -1.140	5.739 4.186 5.795	1.00	42.42 43.72 34.30	
ATOM ATOM	2496 2497	CA C	HIS B 3	398 398	20.800 21.512	-1.831 -2.367	5.448 6.666	1.00 1.00	33.99 32.82	
ATOM ATOM ATOM	2498 2499 2500	O CB CG	HIS B 3 HIS B 3	398	22.577 21.773 21.111	-1.931 -0.937 -0.344	7.129 4.621 3.416	1.00	31.78 32.15 39.99	
MOTA MOTA	2501 2502	ND1 CD2	HIS B 3	398 398	20.631 20.791	0.946 -0.849	3.405	1.00 1.00	47.14 40.00	
ATOM ATOM ATOM	2503 2504 2505		HIS B 3 HIS B 3 PRO B 3	398 199	20.049 20.127 20.997	1.222 0.138 -3.480	2.255 1.505 7.213	1.00	45.76 45.33 32.19	
ATOM ATOM	2506 2507	CA C	PRO B 3	399 <sup>*</sup> 399	21.603 23.046	-4.117 -4.448	8.377 8.135	1.00 1.00	31.87 29.07	
MOTA MOTA MOTA	2508 2509 2510	O CB CG	PRO B 3 PRO B 3 PRO B 3	399	23.508 20.694 19.681	-4.725 -5.275 -5.366	7.021 8.753 7.687	1.00	34.53 35.73 34.94	
ATOM ATOM	2511 2512	CD N	PRO B 3	100	19.797 23.871 25.300	-4.199 -4.247 -4.470	6.757 9.145 9.167	1.00	34.15 24.75 31.04	
ATOM ATOM ATOM	2513 2514 2515	CA C O	GLY B 4 GLY B 4	100	26.084 27.310	-3.377 -3.481	8.472 8.447	1.00	26.14 33.44	
ATOM ATOM ATOM	2516 2517 2518	N CA C	LYS B 4 LYS B 4	101	25.464 26.215 25.856	-2.344 -1.291 0.115	7.923 7.249 7.788	1.00	27.98 27.46 27.45	
ATOM ATOM	2519 2520	O CB	LYS B 4	101 101	24.718 25.821	0.303 -1.148	8.222 5.776	1.00 1.00	24.43 27.97	
ATOM ATOM ATOM	2521 2522 2523	CG CD CE	LYS B 4 LYS B 4	101	26.773 26.112 26.659	-1.932 -3.245 -3.895	4.848 4.546 3.278	1.00	40.85 44.41 47.73	
ATOM ATOM	252 <b>4</b> 2525	NZ N	LYS B 4	101 102	25.668 26.821	-4.872 1.008	2.737 7.581	1.00 1.00	52.90 26.26	
ATOM ATOM ATOM	2526 2527 2528	CA C O	LEU B 4 LEU B 4	102	26.566 26.626 27.723	2.427 3.231 3.311	7.952 6.668 6.078	1.00 1.00	24.76 21.76 25.19	
ATOM ATOM	2529 2530	CB CG	LEU B 4 LEU B 4	102	27.563 27.398 28.525	2.905 2.307 2.816	9.012 10.426 11.330	1.00	25.71 24.37 26.93	
ATOM ATOM ATOM	2531 2532 2533	CD2 N	LEU B 4	102 103	26.031 25.500	2.617 3.763	11.052 6.196	1.00 1.00	27.97 21.80	
MOTA	2534	CA	ILE B 4	103	25.509	4.564	4.969	1.00	22.69	

סצחמח המתבת המתחמת המתחמת המתחמת במתחבת המתחפת המתחפת המתחפת המתחפת המתחבת המתחפת המתחמת המתחת המתחמת המתחמת

MOTA	2535	C ILE B 4	3 25.895	6.009	5.309	1.00 23.32	
ATOM	2536	O ILE B 4	3 25.026	6.891	5.417	1.00 23.36	
ATOM	2537	CB ILE B 40	3 24.097	4.548	4.338	1.00 24.13	
ATOM	2538	CG1 ILE B 40	3 23.581	3.119	4.187	1.00 32.41	
ATOM	2539	CG2 ILE B 40	3 24.026	5.326	3.049	1.00 24.82	
ATOM	2540	CD1 ILE B 40		2.152	3.559	1.00 38.99	
ATOM	2541	N PHE B 4		6.294	5.453	1.00 25.16	
MOTA	2542	CA PHE B 40		7.683	5.787	1.00 22.64	
ATOM	2543	C PHE B 40		8.616	4.666	1.00 24.43	
ATOM	2544	O PHE B 40		9.749	4.825	1.00 24.43	
ATOM	2545	CB PHE B 40		7.725	6.047		
ATOM	2546	CG PHE B 40		7.723	7.436	1.00 20.55	
	2547					1.00 21.35	
ATOM		CD1 PHE B 40		5.968	7.693	1.00 22.55	
ATOM	2548	CD2 PHE B 40		8.164	8.521	1.00 18.14	
ATOM	2549	CE1 PHE B 40		5.542	8.971	1.00 22.47	
ATOM	2550	CE2 PHE B 40		7.710	9.792	1.00 20.41	
ATOM	2551	CZ PHE B 40		6.406	10.037	1.00 23.05	
ATOM	2552	N ALA B 40		8.116	3.432	1.00 21.86	
ATOM	2553	CA ALA B 40		8.855	2.229	1.00 29.53	
ATOM	2554	C ALA B 40		7.823	1.170	1.00 29.06	
ATOM	2555	O ALA B 40		6.694	1.257	1.00 29.31	
ATOM	2556	CB ALA B 40		9.769	1.776	1.00 30.10	
MOTA	2557	N PRO B 40		8.200	0.102	1.00 32.86	
ATOM	2558	CA PRO B 40	6 25.507	7.243	-0.932	1.00 34.92	
ATOM	2559	C PRO B 40	6 26.686	6.453	-1.442	1.00 33.76	
ATOM	2560	O PRO B 40	5 26.578	5.239	-1.718	1.00 30.44	
ATOM	2561	CB PRO B 40	5 24.815	8.126	-1.979	1.00 37.23	
ATOM	2562	CG PRO B 40		9.155	-1.108	1.00 38.70	
ATOM	2563	CD PRO B 40		9.508	-0.090	1.00 32.36	
ATOM	2564	N ASP B 40		7.059	-1.609	1.00 32.30	
ATOM	2565	CA ASP B 40		6.341	-2.059	1.00 33.54	
ATOM	2566	C ASP B 40		6.082	-0.947	1.00 31.74	
ATOM	2567	O ASP B 40		5.716	-1.205	1.00 28.74	
ATOM	2568	CB ASP B 40		7.099	-3.231	1.00 40.47	
ATOM	2569	CG ASP B 40		6.255	-4.174	1.00 48.65	
ATOM	2570	OD1 ASP B 40		5.039	-4.303	1.00 51.06	
ATOM	2571	OD2 ASP B 40		6.821	-4.779	1.00 47.04	
ATOM	2572	N LEU B 40		6.252	0.333	1.00 47.04	
ATOM	2573	CA LEU B 40		5.993	1.448	1.00 24.21	
ATOM	2574	•		5.074			
ATOM	2575	C LEU B 40		5.478	2.398 3.366	1.00 27.05	
ATOM	2576	CB LEU B 40		7.259	2.189	1.00 28.32	
	2577			7.239		1.00 25.91	
ATOM	_	CG LEU B 40			3.287	1.00 24.69	
ATOM	2578	CD1 LEU B 40		6.409	2.725	1.00 31.78	
ATOM	2579	CD2 LEU B 40		8.417 3.801	3.938	1.00 28.24	
ATOM	2580	N VAL B 40			2.020	1.00 27.88	
ATOM	2581	CA VAL B 40		2.803	2.773	1.00 26.77	
ATOM	2582	C VAL B 40		1.872	3.455	1.00 30.15	
ATOM	2583	O VAL B 40		1.161	2.787	1.00 30.60	
ATOM	2584	CB VAL B 40		1.992	1.775	1.00 31.29	
ATOM	2585	CG1 VAL B 40		0.811	2.453	1.00 29.21	
ATOM	2586	CG2 VAL B 40		2.874	1.070	1.00 27.53	
ATOM	2587	N LEU B 41		1.887	4.763	1.00 27.22	
ATOM	2588	CA LEU B 41		1.134	5.549	1.00 27.72	
ATOM	2589	C LEU B 41		-0.077	6.252	1.00 32.86	
ATOM	2590	O LEU B 41		-0.047	6.917	1.00 30.92	
MOTA	2591	CB LEU B 41		1.959	6.625	1.00 27.54	
ATOM	2592	CG LEU B 41		3.213	6.106	1.00 30.97	•
ATOM	2593	CD1 LEU B 41		3.953	7.234	1.00 31.37	
MOTA	2594	CD2 LEU B 41		2.827	4.982	1.00 27.37	
ATOM	2595	N ASP B 41		-1.196	6.010	1.00 30.35	
MOTA	2596	CA ASP B 41		-2.412	6.717	1.00 33.84	
ATOM	2597	C ASP B 41		-2.276	8.164	1.00 30.61	
ATOM	2598	O ASP B 41		-1.691	8.457	1.00 30.55	
MOTA	2599	CB ASP B 41		-3.645	6.059	1.00 39.46	
ATOM	2600	CG ASP B 41	30.415	-4.056	4.899	1.00 47.55	
MOTA	2601	OD1 ASP B 41		-3.357	3.883	1.00 52.15	
MOTA	2602	OD2 ASP B 41		-5.106	5.083	1.00 58.50	
ATOM	2603	N ARG B 41		-2.868	9.050	1.00 29.95	
MOTA	2604	CA ARG B 41		-2.877	10.474	1.00 33.26	
MOTA	2605	C ARG B 41		-3.177	10.738	1.00 35.75	
ATOM	2606	O ARG B 41		-2.445	11.412	1.00 34.51	
ATOM	2607	CB ARG B 41		-3.891	11.142	1.00 32.44	
ATOM	2608	CG ARG B 41		-3.893	12.664	1.00 37.89	
MOTA	2609	CD ARG B 41	30.653	-5.027	13.176	1.00 44.63	
	2003			<b>~</b>		1.00 11.05	
ATOM	2610	NE ARG B 41	30.821	-5.015	14.633	1.00 44.43	
ATOM ATOM			30.821				

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2612 2613 2614 2615 2616 2617 2618 2619 2620 2621 2622 2623 2624	N CA C O CB CG	ARG E ASP E ASP B ASP B ASP B ASP B ASP B	412 413 413 413 413 413 413 413 414 414	31.941 32.507 32.629 33.995 35.067 36.216 34.161 33.536 33.368 33.192 34.720 36.070	-5.791 -6.553 -4.265 -4.708 -3.763 -3.738 -6.089 -7.189 -7.006 -8.253 -2.781 -1.812 -0.879	16.516 14.425 10.155 10.311 9.852 10.383 9.610 10.460 11.691 9.876 8.992 8.612 9.769	1.00 47.65 1.00 48.50 1.00 34.38 1.00 37.43 1.00 35.77 1.00 34.32 1.00 40.66 1.00 48.67 1.00 47.59 1.00 51.36 1.00 35.67 1.00 34.95 1.00 39.07
ATOM ATOM ATOM ATOM	2625 2626 2627 2628	O CB CG CD	GLU B GLU B GLU B	414 414	37.039 35.471 35.025 34.667	-0.107 -1.117 -1.983 -1.067	9.723 7.306 6.129 4.959	1.00 35.84 1.00 35.06 1.00 35.23 1.00 38.62
ATOM ATOM ATOM	2629 2630 2631	OE1 OE2 N	GLU B GLU B GLY B	414 414 415	33.472 35.637 35.355	-0.896 -0.530 -0.973	4.675 4.369 10.889	1.00 36.28 1.00 42.35 1.00 37.63
ATOM ATOM ATOM ATOM	2632 2633 2634 2635	CA C O N	GLY B GLY B GLY B LYS B	415 415	35.596 36.892 37.534 37.442	-0.212 -0.655 0.065 -1.834	12.090 12.772 13.534	1.00 42.19 1.00 39.93 1.00 36.09
ATOM MOTA MOTA	2636 2637 2638	CA C	LYS B LYS B LYS B	416 416	38.725 39.867 40.933	-2.262 -1.387 -1.353	12.419 12.965 12.507 13.131	1.00 40.99 1.00 39.11 1.00 39.37 1.00 37.86
ATOM ATOM ATOM	2639 2640 2641	CB CG CD	LYS B LYS B LYS B	416 416	38.996 38.051 38.112	-3.731 -4.656 -6.062	12.591 13.358 12.770	1.00 45.05 1.00 46.63 1.00 50.30
ATOM ATOM ATOM	2642 2643 2644	CE NZ N	LYS B LYS B CYS B	416 417	37.255 37.618 39.673	-7.010 -6.901 -0.609	13.607 15.056 11.441	1.00 55.85 1.00 57.31 1.00 42.91
ATOM ATOM ATOM	2645 2646 2647 2648	CA C O CB	CYS B CYS B CYS B	417 417	40.649 41.041 42.143 40.175	0.299 1.434 1.931 0.938	10.915 11.844 11.609 9.589	1.00 38.32 1.00 38.44 1.00 36.80 1.00 44.73
ATOM ATOM ATOM	2649 2650 2651	SG N CA	CYS B VAL B VAL B	417 418	39.633 40.239 40.670	-0.209 1.960 3.094	8.291 12.775 13.606	1.00 49.95 1.00 28.66 1.00 25.58
ATOM ATOM ATOM	2652 2653 2654	C O CB	VAL B VAL B	418 418	40.658 39.612 39.598	2.691 2.113 4.212	15.095 15.416 13.406	1.00 23.05 1.00 27.29 1.00 28.69
ATOM ATOM ATOM	2655 2656 2657 2658	CG1 CG2 N CA	VAL B VAL B GLU B GLU B	419	39.790 39.626 41.631 41.604	5.412 4.666 3.069 2.736	14.295 11.935 15.872 17.304	1.00 29.09 1.00 24.25 1.00 28.15 1.00 31.89
ATOM ATOM ATOM	2659 2660 2661	C O CB	GLU B GLU B	419 419	40.285 39.950 42.779	3.190 4.368 3.421	17.969 17.887 17.983	1.00 33.35 1.00 28.30 1.00 37.11
ATOM ATOM ATOM ATOM	2662 2663 2664 2665	CG CD OE1 OE2	GLU B GLU B GLU B	419 419	43.069 44.152 44.530 44.661	2.956 3.719 4.850 3.211	19.406 20.136 19.758 21.160	1.00 40.40 1.00 49.85 1.00 53.97 1.00 52.13
ATOM ATOM ATOM	2666 2667 2668	N CA C	GLY B GLY B GLY B	420 420 420	39.552 38.334 37.061	2.281 2.499 2.865	18.583 19.315 18.598	1.00 29.93 1.00 35.47 1.00 33.37
ATOM ATOM ATOM ATOM	2669 2670 2671 2672	O N CA C	GLY B ILE B ILE B	421 421	35.982 37.097 35.871 34.832	3.059 2.945 3.377 2.295	19.214 17.248 16.566 16.473	1.00 28.93 1.00 27.21 1.00 27.21 1.00 28.34
ATOM ATOM ATOM	2673 2674 2675	O CB CG1	ILE B ILE B ILE B	421 421 421	33.631 36.197 35.169	2.452 3.956 5.104	16.301 15.177 14.907	1.00 26.36 1.00 26.54 1.00 22.99
ATOM ATOM ATOM ATOM	2676 2677 2678 2679		ILE B LEU B	421 421 422 422	36.146 35.566 35.319 34.437	2.861 5.887 1.030 -0.125	14.124 13.638 16.567 16.473	1.00 28.24 1.00 20.02 1.00 30.64 1.00 26.65
MOTA MOTA MOTA	2680 2681 2682	C O CB	LEU B LEU B LEU B	422 422 422	33.300 32.160 35.253	-0.064 -0.392 -1.426	17.501 17.176 16.541	1.00 28.98 1.00 32.01 1.00 33.58
ATOM ATOM ATOM ATOM	2683 2684 2685 2686				34.523 34.221 35.363 33.538	-2.640 -2.456 -3.917 0.370	15.946 14.475 16.121 18.702	1.00 38.34 1.00 36.28 1.00 38.73 1.00 28.85
ATOM ATOM	2687 2688	CA C	GLU B GLU B	423	32.522 31.482	0.549 1.582	19.732 19.233	1.00 28.01 1.00 28.01

ATOM 2747 CA ALA B 430 22.295 -1.104 17.364 1.00 29.50 ATOM 2748 C ALA B 430 21.126 -0.148 17.507 1.00 29.75 ATOM 2749 O ALA B 430 19.964 -0.536 17.409 1.00 23.47 ATOM 2750 CB ALA B 430 22.972 -1.390 18.715 1.00 27.79 ATOM 2751 N THR B 431 21.416 1.167 17.562 1.00 29.22 ATOM 2752 CA THR B 431 20.314 2.136 17.631 1.00 31.78 ATOM 2753 C THR B 431 19.545 2.182 16.320 1.00 27.18 ATOM 2754 O THR B 431 18.306 2.273 16.230 1.00 27.18 ATOM 2755 CB THR B 431 20.930 3.480 18.065 1.00 25.05 ATOM 2756 OG1 THR B 431 21.794 3.282 19.200 1.00 29.32	ATOM 269 ATOM 270 ATOM 271 ATOM 272 ATOM 273 ATOM 274	CB GLU B B B B B B B B B B B B B B B B B B B	423 423 423 423 423 424 424 424	4.942 1.1 4.136 0.0 3.025 -0.4 1.920 -0.8 5.060 -1.1 5.945 -0.8 7.103 -1.7 5.074 -0.7	21.005 22.018 280 23.375 24.924.324 24.324 25.676 18.652 27.68 27.692 17.017 28.812 20.158 28.12 20.158 28.12 20.158 28.12 20.158 28.12 20.158 28.13 15.034 28.14 15.521 28.15 13.983 29.13 10.44 29.13 13.258 29.13 13.044 29.13 13.258 29.13 13.044 29.13 13.258 29.13 13.044 29.13 13.044 29.13 13.044 29.13 13.044 29.13 13.258 29.13 13.044 29.13 13.04	1.00 29.37 1.00 37.08 1.00 50.36 1.00 59.51 1.00 60.42 1.00 26.62 1.00 26.62 1.00 25.62 1.00 27.72 1.00 27.72 1.00 27.72 1.00 27.72 1.00 27.72 1.00 27.06 1.00 27.00 1.00 28.08 1.00 27.00 1.00 28.08 1.00 28.08 1.00 28.08 1.00 27.00 1.00 27.00 1.00 27.00 1.00 27.00 1.00 27.00 1.00 27.00 1.00 27.00 1.00 28.00 1.00 28.00 1.00 28.00 1.00 29.81 1.00 23.39 1.00 25.62 1.00 25.62 1.00 27.00 1.00 27.00 1.00 27.00
ATOM 2748 C ALA B 430 21.126 -0.148 17.507 1.00 29.75 ATOM 2749 O ALA B 430 19.964 -0.536 17.409 1.00 23.47 ATOM 2750 CB ALA B 430 22.972 -1.390 18.715 1.00 27.79 ATOM 2751 N THR B 431 21.416 1.167 17.562 1.00 29.22 ATOM 2752 CA THR B 431 20.314 2.136 17.631 1.00 31.78 ATOM 2753 C THR B 431 19.545 2.182 16.320 1.00 27.18 ATOM 2754 O THR B 431 18.306 2.273 16.230 1.00 24.27 ATOM 2755 CB THR B 431 20.930 3.480 18.065 1.00 25.05	ATOM 273: ATOM 274: ATOM 274: ATOM 274: ATOM 274: ATOM 274: ATOM 274: ATOM 274: ATOM 274: ATOM 274:	8 N LEU B 9 CA LEU B 0 C LEU B 1 O LEU B 2 CB LEU B 3 CG LEU B 4 CD1 LEU B 5 CD2 LEU B 6 N ALA B	429 2429 25 429 25 429 25 429 25 429 25 429 25 429 25 429 25 429 25 430 25	4.942 1.1 4.136 0.0 3.025 -0.4 1.920 -0.8 5.060 -1.1 5.945 -0.7 7.103 -1.7 5.074 -0.7 3.282 -0.5	16 14.863 50 14.231 98 15.122 32 14.676 41 13.852 08 12.624 86 12.580 93 11.394 86 16.405	1.00 25.45 1.00 26.68 1.00 24.43 1.00 26.67 1.00 26.02 1.00 29.17 1.00 27.09 1.00 22.87 1.00 26.72
	ATOM 2749 ATOM 2749 ATOM 2759	8 C ALA B 9 O ALA B 0 CB ALA B 1 N THR B 2 CA THR B 3 C THR B 4 O THR B 5 CB THR B	430 22 430 19 430 22 431 22 431 19 431 18 431 26	1.126 -0.1 9.964 -0.5 2.972 -1.3 1.416 1.1 0.314 2.1 9.545 2.1 8.306 2.2 0.930 3.4	48 17.507 36 17.409 90 18.715 67 17.562 36 17.631 82 16.320 73 16.230 80 18.065	1.00 29.75 1.00 23.47 1.00 27.79 1.00 29.22 1.00 31.78 1.00 27.18 1.00 24.27 1.00 25.05

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MOTA	2766	CA	SER B	433	18.269	-1.504	14.469	1.00 29.37
ATOM	2767	С	SER B	433	17.002	-1.256	15.252	1.00 28.81
ATOM	2768	ō	SER B		15.971	-1.823	14.883	1.00 32.18
ATOM	2769	CB	SER B		18.990	-2.672	15.172	1.00 31.10
ATOM	2770	OG	SER B		20.020	-3.015	14.264	1.00 27.47
ATOM	2771	N	ARG B		17.085	-0.514	16.358	1.00 29.90
ATOM	2772	CA	ARG B		15.871	-0.260	17.147	1.00 34.41
ATOM	2773	C	ARG B		14.859	0.554	16.363	1.00 35.22
MOTA	2774	0	ARG B		13.636	0.377	16.433	1.00 33.22
ATOM	2775	СВ	ARG B		16.264	0.421	18.463	1.00 31.23
	2776				15.008	0.421	19.162	
ATOM		CG	ARG B					1.00 45.34
ATOM	2777	CD	ARG B		14.064	0.035	19.924	1.00 48.18
ATOM	2778	NE	ARG B		13.120	-0.900	19.363	1.00 48.77
ATOM	2779	CZ	ARG B		11.922	-1.055	19.948	1.00 56.45
ATOM	2780	NH1	ARG B		11.626	-0.316	21.025	1.00 59.27
ATOM	2781	NH2	ARG B		11.041	-1.928	19.478	1.00 58.02
ATOM	2782	N	PHE B		15.369	1.546	15.604	1.00 32.09
MOTA	2783	CA	PHE B		14.458	2.349	14.785	1.00 28.44
MOTA	2784	C	PHE B		13.872	1.440	13.694	1.00 28.71
ATOM	2785	0	PHE B		12.697	1.557	13.389	1.00 28.96
MOTA	2786	CB	PHE B		15.140	3.558	14.169	1.00 27.08
MOTA	2787	CG	PHE B		15.381	4.716	15.144	1.00 25.10
ATOM	2788		PHE B		14.324	5.372	15.755	1.00 27.67
ATOM	2789	CD2	PHE B			5.107	15.458	1.00 24.73
MOTA	2790	CE1	PHE B		14.541	6.418	16.628	1.00 23.09
ATOM	2791	CE2	PHE B		16.905	6.177	16.313	1.00 28.72
ATOM	2792	cz	PHE B	435	15.844	6.840	16.893	1.00 24.31
ATOM	2793	N	ARG B		14.642	0.486	13.166	1.00 29.19
ATOM	2794	CA	ARG B	436	14.127	-0.445	12.165	1.00 30.07
MOTA	2795	С	ARG B	436	13.033	-1.316	12.792	1.00 31.36
MOTA	2796	0	ARG B	436	11.960	-1.486	12.193	1.00 29.11
MOTA	2797	CB	ARG B	436	15.241	-1.335	11.584	1.00 31.22
MOTA	2798	CG	ARG B	436	14.762	-2.349	10.518	1.00 31.92
MOTA	2799	CD	ARG B	436	15.848	-3.424	10.281	1.00 34.42
ATOM	2800	NE	ARG B	436	17.060	-2.694	9.959	1.00 41.51
ATOM	2801	CZ	ARG B	436	18.212	-2.827	10.627	1.00 39.46
ATOM	2802	NH1	ARG B	436	18.314	-3.685	11.621	1.00 36.97
ATOM	2803	NH2	ARG B		19.220	-2.051	10.264	1.00 40.73
ATOM	2804	N	GLU B		13.276	-1.754	14.024	1.00 32.14
ATOM	2805	CA	GLU B		12.273	-2.605	14.702	1.00 34.87
ATOM	2806	C	GLU B		10.983	-1.853	14.954	1.00 33.57
ATOM	2807	ō	GLU B		9.862	-2.362	14.906	1.00 33.90
ATOM	2808	СB	GLU B		12.871	-3.185	15.973	1.00 40.30
ATOM	2809	ĊĠ	GLU B		13.862	-4.312	15.686	1.00 49.69
ATOM	2810	CD	GLU B		14.896	-4.501	16.779	1.00 57.75
ATOM	2811	OE1	GLU B		14.545	-4.433	17.989	1.00 58.57
ATOM	2812	OE2	GLU B		16.079	-4.729	16.401	1.00 58.23
ATOM	2813	N	LEU B		11.077	-0.550	15.238	1.00 29.78
ATOM	2814	CA	LEU B		9.938	0.307	15.445	1.00 29.52
ATOM	2815	C	LEU B		9.291	0.765	14.145	1.00 26.28
ATOM	2816	ō	LEU B		8.235	1.397	14.169	1.00 27.56
ATOM	2817	CB	LEU B		10.391	1.566	16.229	1.00 33.11
ATOM	2818	CG	LEU B		10.412	1.409	17.743	1.00 39.39
ATOM	2819		LEU B		11.110	2.613	18.358	1.00 40.38
MOTA	2820		LEU B		8.982	1.266	18.276	1.00 37.45
MOTA	2821	N	LYS B		9.903	0.495	12.993	1.00 28.35
ATOM	2822	CA	LYS B		9.414	0.881	11.690	1.00 27.73
ATOM	2823	C	LYS B		9.217	2.408	11.606	1.00 25.44
ATOM	2824	ō	LYS B		8.169	2.940	11.257	1.00 23.93
ATOM	2825	CB	LYS B		8.109	0.164	11.308	1.00 30.79
ATOM	2826	ĊĠ	LYS B		8.369	-1.324	10.989	1.00 36.88
ATOM	2827	CD	LYS B		7.060	-2.021	10.634	1.00 38.92
ATOM	2828	CE	LYS B		7.212	-3.540	10.639	1.00 44.57
ATOM	2829	NZ	LYS B		6.192	-4.182	9.749	1.00 50.78
MOTA	2830	N	LEU B		10.270	3.104	12.031	1.00 26.36
ATOM	2831	CA	LEU B		10.303	4.570	12.030	1.00 23.78
ATOM	2832	C	LEU B		9.932	5.079	10.654	1.00 24.55
ATOM	2833	ŏ	LEU B		10.571	4.653	9.672	1.00 26.01
ATOM	2834	СВ	LEU B		11.749	5.038	12.352	1.00 25.25
ATOM	2835	CG	LEU B		11.887	6.587	12.440	1.00 23.71
			LEU B		11.161	7.175	13.632	1.00 19.69
ATTEM	2836							
ATOM ATOM	2836 2837					6.923	12,400	
MOTA	2837	CD2	LEU B	440	13.377	6.923 5.976	12.400 10.586	1.00 23.09
MOTA MOTA	2837 2838	CD2 N	LEU B GLN B	440 441	13.377 8.957	5.976	10.586	1.00 23.09 1.00 20.88
ATOM ATOM ATOM	2837 2838 2839	CD2 N CA	LEU B GLN B GLN B	440 441 441	13.377 8.957 8.526	5.976 6.530	10.586 9.294	1.00 23.09
MOTA MOTA MOTA MOTA	2837 2838 2839 2840	CD2 N CA C	LEU B GLN B GLN B	440 441 441 441	13.377 8.957 8.526 9.260	5.976 6.530 7.828	10.586 9.294 8.987	1.00 23.09 1.00 20.88 1.00 27.60
ATOM ATOM ATOM	2837 2838 2839	CD2 N CA	LEU B GLN B GLN B	440 441 441 441	13.377 8.957 8.526	5.976 6.530	10.586 9.294	1.00 23.09 1.00 20.88 1.00 27.60 1.00 27.63

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2843 2844 2845 2846 2847 2848 2850 2851 2853	CG CD OE1 NE2 N CA C O CB		6.418 5.880 7.165 9.306 10.021 9.527 10.388 9.996 10.894	5.554 4.515 4.786 3.441 8.219 9.423 10.660 11.418 9.539 10.622 10.727	9.658 8.568 7.490 8.802 7.731 7.313 8.021 8.526 5.768 5.225 5.455	1.00 33.92 1.00 42.79 1.00 49.00 1.00 47.31 1.00 26.50 1.00 29.05 1.00 24.51 1.00 25.18 1.00 31.83 1.00 33.00 1.00 34.94
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2854 2855 2856 2857 2858 2859 2860 2861 2862 2863	CD2	HIS B 442	10.581 12.715 11.725 8.232 7.739 8.036 8.109 6.246 6.009	11.678 11.799 12.403 10.903 12.085 12.057 13.134 12.410 12.667 12.888	4.438 4.844 4.214 8.167 8.832 10.336 10.934 8.563 7.064 6.794	1.00 34.42 1.00 31.06 1.00 23.03 1.00 23.66 1.00 22.88 1.00 19.97 1.00 26.75 1.00 31.03 1.00 33.11
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2864 2865 2866 2867 2868 2869 2870 2871 2872 2873	CE NZ N CA C CB CB CD OE1	LYS B 443 GLU B 444 GLU B 444 GLU B 444 GLU B 444 GLU B 444 GLU B 444 GLU B 444	4.304 2.834 8.115 8.434 9.919 10.279 8.275 6.788 6.612	13.255 13.347 10.869 10.812 11.207 12.011 9.389 8.971 7.492 6.666	5.318 4.991 10.920 12.379 12.511 13.370 12.932 12.978 13.273 12.982	1.00 45.60 1.00 46.60 1.00 21.21 1.00 18.69 1.00 21.45 1.00 19.10 1.00 21.53 1.00 25.64 1.00 24.73
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2874 2875 2876 2877 2878 2879 2880 2881 2882	OE2 N CA C O CB CG CD1 CD2	GLU B 444 TYR B 445 TYR B 445 TYR B 445 TYR B 445 TYR B 445 TYR B 445 TYR B 445	5.585 10.776 12.195 12.440 13.283 12.905 14.154 15.329 14.166	7.165 10.716 11.016 12.531 13.083 10.299 10.963 10.898 11.619	13.884 11.656 11.602 11.488 12.191 10.462 9.926 10.683 8.682	1.00 26.20 1.00 20.35 1.00 23.29 1.00 25.07 1.00 22.54 1.00 23.22 1.00 25.12 1.00 26.68 1.00 25.12
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2883 2884 2885 2886 2887 2888 2889 2890 2891 2892	CE1 CE2 CZ OH N CA C O CB CG	TYR B 445 TYR B 445 TYR B 445 TYR B 445 LEU B 446	16.486 15.346 16.471 17.680 11.689 11.848 11.530 12.237 10.902 11.156	11.480 12.173 12.145 12.652 13.181 14.616 15.345 16.275 15.194 14.620	10.236 8.238 9.018 8.602 10.461 11.760 12.130 9.383 7.956	1.00 26.30 1.00 25.76 1.00 25.11 1.00 32.57 1.00 22.15 1.00 19.59 1.00 19.63 1.00 24.06 1.00 25.43
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2893 2894 2895 2896 2897 2898 2899 2900 2901 2902		LEU B 446 LEU B 446 CYS B 447 CYS B 447 CYS B 447 CYS B 447 CYS B 447 VAL B 448	10.056 12.564 10.480 10.110 11.221 11.512 8.771 7.391 11.621 12.621	15.081 14.978 14.946 15.624 15.376 16.262 15.099 15.722 14.089 13.830	6.999 7.528 12.463 13.696 14.748 15.514 14.240 13.134 14.879 15.948	1.00 29.92 1.00 27.33 1.00 18.44 1.00 16.12 1.00 18.28 1.00 17.67 1.00 17.37 1.00 21.76 1.00 19.27 1.00 18.83
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2903 2904 2905 2906 2907 2908 2909 2910 2911	C O CB CG1 CG2 N CA C	VAL B 448 VAL B 448 VAL B 448 VAL B 448 VAL B 449 LYS B 449 LYS B 449 LYS B 449 LYS B 449	13.905 14.520 12.846 13.955 11.498 14.355 15.601 15.428 16.375	14.585 15.072 12.292 11.953 11.659 14.647 15.404 16.871 17.491	15.713 16.666 15.982 16.955 16.336 14.437 14.161 14.558 15.076	1.00 21.13 1.00 19.08 1.00 25.15 1.00 29.45 1.00 18.13 1.00 17.61 1.00 20.56 1.00 19.67
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2912 2913 2914 2915 2916 2917 2918 2919	CB CG CD CE NZ N CA C	LYS B 449 LYS B 449 LYS B 449 LYS B 449 LYS B 450 ALA B 450 ALA B 450	16.004 17.350 17.812 16.863 17.613 14.262 14.037	15.195 15.751 15.029 15.527 15.786 17.461 18.851 18.929	12.699 12.324 11.026 9.915 8.664 14.244 14.648 16.174	1.00 17.60 1.00 20.54 1.00 24.11 1.00 23.93 1.00 28.21 1.00 16.41 1.00 18.74 1.00 18.63

MOTA MOTA	2920 2921	O CB		ь 450 в 450		19.892 19.415	16.771 14.050	1.00 20.03 1.00 17.47	•
ATOM	2922	N		B 451		17.931	16.883	1.00 17.47	
ATOM ATOM	2923 2924	CA C		B 451		17.947	18.329	1.00 18.37	
ATOM	2925	o		В 451 В 451		17.871 18.573	18.885 19.865	1.00 17.64 1.00 20.15	
MOTA	2926	CB		B 451	12.672	16.774	18.885	1.00 19.94	Ċ
ATOM ATOM	2927 2928	CG SD		В 451 В 451		17.051 15.686	18.498 18.784	1.00 27.03 1.00 32.64	
MOTA	2929	CE	MET	B 451	10.922	14.995	20.161	1.00 27.86	С
ATOM ATOM	2930 2931	N CA		B 452 B 452		17.142 17.097	18.234 18.705	1.00 17.42 1.00 18.96	
ATOM	2932	C		B 452		18.479	18.667	1.00 18.96	
ATOM	2933	O		B 452 B 452		18.991	19.621	1.00 23.30	0
ATOM ATOM	2934 2935	CB CG1	ILE :			16.101 14.701	17.833 18.126	1.00 19.88 1.00 21.76	
MOTA	2936	CG2	ILE :	B 452	19.497	16.199	18.120	1.00 18.62	С
ATOM ATOM	2937 2938	N	ILE :	B 452 B 453		13.672 19.179	17.197 17.567	1.00 22.87 1.00 18.54	
ATOM	2939	CA	LEU :	B 453	18.132	20.547	17.476	1.00 17.52	Ċ
MOTA MOTA	2940 2941	C		B 453 B 453		21.466 22.272	18.543	1.00 22.82	С
ATOM	2942	СВ		B 453		21.154	19.181 16.125	1.00 20.30 1.00 19.07	
ATOM	2943	CG		B 453	18.042	22.652	15.950	1.00 18.04	С
ATOM ATOM	2944 2945		LEU I			23.012 23.159	15.887 14.663	1.00 22.50 1.00 22.28	
ATOM	2946	N	LEU I	B 454	16.234	21.381	18.711	1.00 17.98	N
ATOM ATOM	2947 2948	CA C		В 454 В 454		22.323 22.004	19.641 21.104	1.00 21.35 1.00 23.61	
ATOM	2949	ŏ		B 454		22.945	21.104	1.00 25.52	
ATOM	2950	CB		B 454	14.140	22.453	19.270	1.00 20.71	С
MOTA MOTA	2951 2952	CG CD1	LEU I	В 454 В 454		22.975 22.881	17.887 17.610	1.00 20.30 1.00 23.20	
ATOM	2953	CD2	LEU 1	B 454	14.317	24.430	17.695	1.00 21.88	C
MOTA MOTA	2954 2955	N CA		В 455 В 455		20.765 20.351	21.445 22.852	1.00 21.94 1.00 28.13	
ATOM	2956	C	ASN I	в 455	17.425	19.900	23.406	1.00 27.63	С
ATOM	2957 2958	O		B 455		19.519	24.587 22.776	1.00 38.60	
ATOM ATOM	2959	CB CG		В 455 В 455		18.967 18.151	24.024	1.00 33.09 1.00 46.53	
ATOM	2960		ASN I			16.948	24.077	1.00 43.08	0
ATOM ATOM	2961 2962	ND2	ASN I	в 455 В 456		18.808 19.912	25.080 22.560	1.00 40.09 1.00 24.13	N N
MOTA	2963	CA	SER I	B 456	19.638	19.252	23.128	1.00 30.74	C
ATOM ATOM	2964 2965	C O		В 456 В 456		20.033 19.391	24.059 24.818	1.00 31.89 1.00 29.82	C 0
MOTA	2966	CB	SER I	в 456	20.343	18.604	21.921	1.00 31.07	С
ATOM ATOM	2967 2968	OG N		B 456 B 457		17.466 21.349	21.649 24.098	1.00 29.71 1.00 27.18	N
ATOM	2969	CA		B 457		22.116	24.944	1.00 27.18	
ATOM	2970	C		B 457		21.687	26.401	1.00 35.06	C
ATOM ATOM	2971 2972	O CB	ALA I			21.737 23.610	27.028 24.809	1.00 34.11 1.00 39.56	
ATOM	2973	N	MET I	B 458	22.347	21.591	27.008	1.00 35.72	N
ATOM ATOM	2974 2975	CA C	MET I			21.244 22.505	28.430 29.298	1.00 29.71 1.00 42.19	C C
MOTA	2976	0	MET I	B 458	22.691	23.569	28.725	1.00 41.34	0
ATOM ATOM	2977 2978	CB CG	MET I			20.386 18.990	28.739 28.158	1.00 38.90 1.00 35.74	C
ATOM	2979	SD	MET I			17.944	28.833	1.00 33.74	S
ATOM	2980	CE	MET I			17.715	30.567	1.00 35.81 1.00 54.31	С
ATOM ATOM	2981 2982	N CA	ALA I			36.034 36.184	25.966 24.740	1.00 54.31	И
MOTA	2983	С	ALA I	3 469	11.762	35.123	23.727	1.00 54.41	C
ATOM ATOM	298 <b>4</b> 2985	O CB	ALA H			34.426 37.560	23.100 24.148	1.00 53.37 1.00 56.77	0 C
ATOM	2986	N	SER F	3 470	13.092	35.091	23.569	1.00 49.02	N
ATOM ATOM	2987 2988	CA C	SER E	3 470 3 470	13.677 13.409	34.082 32.747	22.669 23.368	1.00 46.55 1.00 43.33	C C
MOTA	2989	ŏ	SER E	3 470	12.951	31.791	22.750	1.00 43.16	0
ATOM	2990	CB	SER E		15.155 15.760	34.311	22.434	1.00 47.34	C 0
ATOM ATOM	2991 2992	OG N	SER E		13.697	33.317 32.727	21.622 24.670	1.00 44.03 1.00 43.18	N
MOTA	2993	CA	SER E	3 471	13.459	31.548	25.484	1.00 47.51	С
ATOM ATOM	2994 2995	C O	SER E		12.028 11.830	31.052 29.892	25.311 24.970	1.00 48.84 1.00 49.05	C 0
MOTA	2996	СВ		3 471	13.659	31.871	26.972	1.00 50.06	С
								,	

ATOM 3015 CD LYS B 473 9.654 32.805 18.340 1.00 62 ATOM 3016 CE LYS B 473 9.772 34.324 18.387 1.00 65 ATOM 3017 NZ LYS B 473 9.434 34.906 17.052 1.00 69	.78 .85 .37 .73 .16
ATOM 3017 NZ LYS B 473 9.434 34.906 17.052 1.00 69	.37 .73 .16 .82
ATOM 3018 N LEU B 474 11.284 29.623 21.780 1.00 42	.16 .82
ATOM 3020 C LEU B 474 10.996 27.226 22.136 1.00 38	
ATOM 3022 CB LEU B 474 13.219 28.190 22.362 1.00 36	
ATOM 3023 CG LEU B 474 13.947 26.847 22.332 1.00 36 ATOM 3024 CD1 LEU B 474 14.091 26.373 20.883 1.00 28	
ATOM 3025 CD2 LEU B 474 15.306 26.945 23.003 1.00 29 ATOM 3026 N ALA B 475 10.549 27.399 23.382 1.00 37	.09
ATOM 3027 CA ALA B 475 9.639 26.426 24.016 1.00 35 ATOM 3028 C ALA B 475 8.408 26.263 23.146 1.00 31	.34
ATOM 3029 O ALA B 475 7.818 25.186 22.971 1.00 35	.23
ATOM 3030 CB ALA B 475 9.254 27.052 25.357 1.00 37 ATOM 3031 N HIS B 476 7.906 27.334 22.557 1.00 30	.35
ATOM 3032 CA HIS B 476 6.768 27.338 21.678 1.00 32 ATOM 3033 C HIS B 476 7.044 26.567 20.382 1.00 34	
ATOM 3034 O HIS B 476 6.185 25.823 19.921 1.00 29 ATOM 3035 CB HIS B 476 6.352 28.769 21.387 1.00 39	.76
ATOM 3036 CG HIS B 476 5.245 28.882 20.399 1.00 39	.01
ATOM 3038 CD2 HIS B 476 5.284 29.189 19.083 1.00 44	.66
ATOM 3039 CE1 HIS B 476 3.193 28.884 19.612 1.00 45 ATOM 3040 NE2 HIS B 476 4.002 29.179 18.613 1.00 43	.00
ATOM 3041 N LEU B 477 8.207 26.755 19.761 1.00 31 ATOM 3042 CA LEU B 477 8.506 26.025 18.508 1.00 30	-
ATOM 3043 C LEU B 477 8.673 24.539 18.821 1.00 27 ATOM 3044 O LEU B 477 8.225 23.646 18.100 1.00 29	.67 .59
ATOM 3045 CB LEU B 477 9.725 26.692 17.874 1.00 30 ATOM 3046 CG LEU B 477 10.411 25.953 16.725 1.00 34	.28
ATOM 3047 CD1 LEU B 477 9.468 25.609 15.578 1.00 32	.42
ATOM 3049 N LEU B 478 9.314 24.209 19.935 1.00 25	
ATOM 3051 C LEU B 478 8.133 22.133 20.616 1.00 30	
ATOM 3052 O LEU B 478 7.877 20.992 20.196 1.00 25 ATOM 3053 CB LEU B 478 10.299 22.798 21.639 1.00 30	
ATOM 3054 CG LEU B 478 10.473 21.437 22.277 1.00 28 ATOM 3055 CD1 LEU B 478 10.964 20.403 21.245 1.00 33	
ATOM 3056 CD2 LEU B 478 11.476 21.530 23.401 1.00 34 ATOM 3057 N ASN B 479 7.226 22.877 21.250 1.00 28	. 87
ATOM 3058 CA ASN B 479 5.867 22.367 21.472 1.00 30	.21
ATOM 3060 O ASN B 479 4.440 21.106 20.025 1.00 24	. 27
ATOM 3061 CB ASN B 479 5.035 23.378 22.286 1.00 32 ATOM 3062 CG ASN B 479 5.534 23.365 23.736 1.00 40	.31
ATOM 3063 OD1 ASN B 479 5.903 22.336 24.293 1.00 37 ATOM 3064 ND2 ASN B 479 5.552 24.558 24.327 1.00 44	
ATOM 3065 N ALA B 480 5.386 22.898 19.115 1.00 20 ATOM 3066 CA ALA B 480 4.786 22.735 17.811 1.00 23	.99
ATOM 3067 C ALA B 480 5.353 21.489 17.156 1.00 21 ATOM 3068 O ALA B 480 4.627 20.763 16.535 1.00 20	. 66
ATOM 3069 CB ALA B 480 5.088 23.971 16.948 1.00 25	. 20
ATOM 3070 N VAL B 481 6.694 21.289 17.289 1.00 20 ATOM 3071 CA VAL B 481 7.239 20.054 16.694 1.00 17	
ATOM 3072 C VAL B 481 6.697 18.835 17.451 1.00 16 ATOM 3073 O VAL B 481 6.442 17.849 16.773 1.00 22	

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3074 30776 30778 30778 30881 30883 30884 30885 30885 30887 308991 30996 30996 31001 31102 31104 31116 31117 31118 31118 31118 31118	OD2 N CA C O CB N CA C O CB CCD1 CD2 N CA C O CB CCG1 CD2 N CA C O CB CCG1 CD2	VAL THR R B B B B B B B B B B B B B B B B B B	444444444444444444444444444444444444	8.766 9.3506 9.25506 9.25506 9.25506 9.25506 9.25506 9.25506 9.25506 9.25506 9.2506 9.2506 9.2506 9.2506 9.2506 9.2306	20.120 18.729 18.7299 18.7388 17.7467 16.3275 18.1999 18.1908 17.7970 18.1909 18.365 17.7970 18.1909 18.365 17.7990 18.365 17.5995 18.3297 19.4070 11.5995 18.3297 14.140 12.5296 13.2218 13.3279 13.3218 14.325 14.325 15.9996 13.325 14.349 13.3279 15.9996 15.9	16.625 15.736 19.474 18.948 18.642 21.397 21.826 18.301 16.549 18.301 16.549 18.301 16.549 18.301 16.549 18.301 16.549 18.301 16.549 18.307 14.756 14.756 14.756 14.756 14.7756 14.7756 14.7756 15.6787 15.6787 16.387 16.387 16.387 16.387 16.3845 16.387 16.3845 16.387 16.3845 16.384	1.00 22.50 1.00 23.47 1.00 23.47 1.00 23.62 1.00 18.00 1.00 22.76 1.00 22.76 1.00 27.76 1.00 27.12 1.00 24.13 1.00 22.27 1.00 26.19 1.00 31.63 1.00 32.75 1.00 22.22 1.00 22.87 1.00 22.87 1.00 22.33 1.00 21.02 1.00 20.60 1.00 19.83 1.00 19.83 1.00 19.83 1.00 22.33 1.00 21.40 1.00 18.67 1.00 20.60 1.00 19.57 1.00 24.38 1.00 21.56 1.00 24.38 1.00 24.38 1.00 21.63 1.00 24.38 1.00 21.63 1.00 25.74 1.00 26.05 1.00 25.74 1.00 26.05 1.00 25.74 1.00 25.74 1.00 26.05
ATOM ATOM	3115 3116	O CB	TRP B	487 487	-0.626 -0.264	12.579 15.750	13.030 14.059	1.00 26.05 1.00 25.93
MOTA	3118	CD1	TRP B	487	-2.409 -0.565 -2.779	16.096	12.721	1.00 37.56 1.00 31.01 1.00 40.01
ATOM ATOM ATOM ATOM	3121 3122 3123 3124	CZ2	TRP B TRP B TRP B	487	-1.528	16.100 15.745 16.157 15.816	10.608 10.903 9.222 9.534	1.00 36.26 1.00 29.94 1.00 32.52 1.00 37.87
ATOM ATOM ATOM ATOM	3125 3126 3127 3128		TRP B VAL B VAL B VAL B	487 488 488	-0.286 1.485 2.006 1.740		8.699 13.308 12.360 12.832	1.00 36.54 1.00 23.83 1.00 21.03 1.00 26.30
ATOM ATOM ATOM	3129 3130 3131	O CB CG1	VAL B VAL B VAL B	488 488 488	1.293 3.521 4.070	9.887 12.296 11.047	12.075 12.123 11.443 11.297	1.00 25.72 1.00 24.64 1.00 26.89 1.00 24.58
ATOM ATOM ATOM ATOM	3132 3133 3134 3135	N CA C	VAL B ILE B ILE B	489 489 489	3.865 2.028 1.765 0.256	13.561 10.550 9.180 8.881	14.155 14.666 14.538	1.00 23.13 1.00 22.06 1.00 24.87
ATOM ATOM ATOM ATOM	3136 3137 3138 3139	CG2	ILE B ILE B ILE B	489 489 489	-0.098 2.177 3.734 1.641	7.719 9.090 9.132 7.941	14.264 16.134 16.232 16.945	1.00 24.99 1.00 26.08 1.00 22.32 1.00 22.95
ATOM ATOM ATOM ATOM	3140 3141 3142 3143	CD1 N CA C	ILE B ALA B ALA B ALA B	490 490	-0.617 -2.070 -2.537	9.443 9.831 9.508 9.090	17.653 14.685 14.629 13.265	1.00 20.14 1.00 27.34 1.00 27.84 1.00 34.80
ATOM ATOM ATOM ATOM	3144 3145 3146 3147	O CB N CA	ALA B ALA B LYS B LYS B	490 491	-3.547 -2.880 -1.803 -2.252	8.355 10.619 9.380 8.898	13.114 15.276 12.183 10.870	1.00 31.94 1.00 28.91 1.00 32.12 1.00 38.71
ATOM ATOM ATOM	3148 3149 3150	CA C O CB	LYS B LYS B LYS B	491 491	-1.972 -2.387 -1.719	7.420 6.847 9.752	10.669 9.660 9.735	1.00 34.00 1.00 32.22 1.00 44.36

ATOM 3152 CE LYS B 491	ATOM	3151	CG	LYS B 49		9.800	9.522	1.00 48.41
ATOM 3155 N SER B 4921.400 6.696 11.641 1.00 28.99 ATOM 3155 N SER B 4921.400 6.696 11.641 1.00 28.99 ATOM 3156 CA SER B 4922.366 4.456 11.835 1.00 32.62 ATOM 3158 O SER B 4922.366 4.456 11.835 1.00 32.62 ATOM 3159 CB SER B 4922.365 1.257 11.504 1.00 33.42 ATOM 3159 CB SER B 4922.365 1.255 11.973 1.00 34.02 ATOM 3159 CB SER B 4923.383 4.811 12.752 1.00 34.02 ATOM 3161 CA GEV B 4934.522 4.264 11.2752 1.00 34.02 ATOM 3161 CA GEV B 4934.559 3.393 14.015 1.00 26.51 ATOM 3163 C GLY B 4934.559 3.393 14.015 1.00 26.51 ATOM 3164 CO GLY B 4934.559 3.393 14.015 1.00 26.51 ATOM 3165 N ILE B 4943.394 2.642 16.006 1.00 26.38 ATOM 3166 CA ILE B 4944.643 4.399 1.00 30.49 ATOM 3167 C ILE B 4944.643 4.399 1.00 30.49 ATOM 3167 C ILE B 4944.633 4.399 1.00 10.0 26.60 ATOM 3168 C B ILE B 4941.318 2.494 16.410 1.00 25.54 ATOM 3167 C ILE B 4941.328 2.494 16.410 1.00 25.54 ATOM 3167 C ILE B 4941.538 3.868 11.00 26.00 3.40 ATOM 3170 CCI ILE B 4941.538 3.868 11.00 26.00 3.50 ATOM 3170 CCI ILE B 4941.538 3.868 11.00 26.00 3.50 ATOM 3171 C CCI ILE B 4941.318 3.868 11.00 10.00 25.54 ATOM 3171 C CCI ILE B 4941.318 3.868 11.00 10.00 25.54 ATOM 3171 C CCI ILE B 4941.318 3.868 11.00 10.00 25.54 ATOM 3171 C CCI ILE B 4941.318 3.868 11.00 20.00 3.55 ATOM 3171 C CCI ILE B 4941.318 3.868 11.00 20.00 3.55 ATOM 3171 C CCI ILE B 4941.318 3.868 11.00 20.00 3.55 ATOM 3171 C CCI ILE B 4941.318 3.868 11.00 20.00 3.55 ATOM 3171 C CCI ILE B 4941.318 3.868 11.00 3.00 3.50 ATOM 3171 C CCI ILE B 4941.318 3.868 11.00 3.00 3.00 3.00 3.00 3.00 3.00 3.0								
ATOM 3155 N SER B 492 -1.127 5.277 11.504 1.00 33.42 ATOM 3156 CA SER B 492 -2.365 4.456 11.835 1.00 32.62 ATOM 3159 CB SER B 492 -2.365 4.456 11.835 1.00 32.62 ATOM 3159 CB SER B 492 -2.385 3.255 11.573 1.00 32.62 ATOM 3159 CB SER B 492 -0.318 4.812 11.575 1.00 32.62 ATOM 3160 CG SER B 492 -0.318 4.812 11.576 1.00 35.52 ATOM 3161 N GUY B 493 -3.393 4.812 11.576 1.00 35.52 ATOM 3161 N GUY B 493 -3.393 5.00 11.2463 1.00 25.65 1.00 31.65 N GUY B 493 -4.559 3.393 1.40 11.2463 1.00 25.65 1.00 31.65 N GUY B 493 -4.559 3.393 1.40 11.2463 1.00 31.70 ATOM 3166 CA ILE B 494 -3.498 3.487 11.00 25.72 ATOM 3167 C ILE B 494 -4.220 3.249 11.511 1.00 25.60 ATOM 3168 O ILE B 494 -4.220 3.249 11.511 1.00 25.60 ATOM 3170 CGI ILE B 494 -1.928 2.494 16.400 1.00 25.72 ATOM 3169 CB ILE B 494 -1.153 3.881 16.709 1.00 25.72 ATOM 3170 CGI ILE B 494 -1.153 3.881 16.709 1.00 25.72 ATOM 3170 CGI ILE B 494 -1.153 3.881 16.709 1.00 25.50 ATOM 3171 CGZ ILE B 494 -1.153 3.881 16.709 1.00 25.50 ATOM 3171 CGZ ILE B 494 -1.153 3.881 16.709 1.00 25.50 ATOM 3173 CG SER B 495 -5.550 2.462 18.155 1.00 25.65 ATOM 3173 CG SER B 495 -5.550 2.462 18.155 1.00 25.65 ATOM 3173 CG SER B 495 -5.550 2.462 18.156 1.00 25.65 ATOM 3173 CG SER B 495 -5.550 2.462 18.156 1.00 25.65 ATOM 3173 CG SER B 495 -5.550 2.462 18.156 1.00 25.65 ATOM 3173 CG SER B 495 -5.550 2.462 18.156 1.00 25.65 ATOM 3173 CG SER B 495 -5.550 2.462 18.156 1.00 25.65 ATOM 3173 CG SER B 495 -5.550 2.462 18.156 1.00 25.65 ATOM 3175 CG SER B 495 -5.550 2.462 18.156 1.00 25.65 ATOM 3175 CG SER B 495 -5.550 2.462 18.156 1.00 25.65 ATOM 3175 CG SER B 495 -5.550 2.462 18.156 1.00 25.65 ATOM 3179 N SER B 496 -5.505 3.279 1.00 25.00 ATOM 3179 N SER B 496 -5.405 4.270 3.156 1.00 25.81 ATOM 3181 C SER B 496 -5.405 4.270 3.156 1.00 25.81 ATOM 3181 C SER B 496 -5.405 4.270 3.156 1.00 25.81 ATOM 3181 C SER B 496 -5.405 4.270 3.156 1.00 25.83 ATOM 3181 C SER B 496 -5.405 4.270 3.156 1.00 25.83 ATOM 3181 C SER B 496 -5.405 4.270 3.157 3.10 0.0 25.84 ATOM 3183 CG SER B 496 -6.672 5.405 4.270 3.10 0.0 25.84 A		_						
ATOM 3158 O SER B 492 -2.365 4.456 11.835 1.00 28.23 ATOM 3159 CB SER B 492 -0.338 1.255 11.573 1.00 32.62 ATOM 3161 N GLY B 493 -0.338 4.812 11.575 1.00 32.62 ATOM 3161 N GLY B 493 -3.393 5.001 12.462 1.00 28.90 ATOM 3161 N GLY B 493 -4.559 2.255 11.573 1.00 26.51 ATOM 3163 C GLY B 493 -4.559 2.255 11.573 1.00 26.51 ATOM 3166 N LLE B 494 -3.384 2.642 1.6006 1.00 28.72 ATOM 3166 C GLY B 493 -5.500 2.553 14.347 1.00 32.52 ATOM 3166 N LLE B 494 -3.384 2.642 1.6006 1.00 26.72 ATOM 3167 C LLE B 494 -3.384 2.642 1.6006 1.00 26.73 ATOM 3168 C GLY B 493 -5.500 2.553 11.347 1.00 25.72 ATOM 3169 CB LLE B 494 -1.153 1.759 1.00 36.83 ATOM 3170 CG LLE B 494 -1.153 1.759 1.00 36.87 ATOM 3171 CG2 LLE B 494 -1.153 1.759 1.00 25.72 ATOM 3171 CG2 LLE B 494 -1.153 1.759 1.00 32.50 ATOM 3171 CG2 LLE B 494 -1.153 1.759 15.340 1.00 25.72 ATOM 3171 CG2 LLE B 494 -1.153 1.759 15.340 1.00 25.72 ATOM 3171 CG2 LLE B 494 -1.153 1.759 15.340 1.00 25.72 ATOM 3171 CG2 LLE B 494 -1.153 1.759 15.340 1.00 25.93 ATOM 3171 CG2 LLE B 494 -1.153 1.759 15.340 1.00 25.93 ATOM 3171 CG2 LLE B 495 -1.533 2.484 18.155 1.00 22.01 ATOM 3175 C SER B 495 -4.533 2.484 18.155 1.00 22.01 ATOM 3176 C SER B 495 -4.533 2.484 18.155 1.00 22.01 ATOM 3177 CB SER B 495 -5.519 1.793 20.264 1.00 29.55 ATOM 3178 CG SER B 495 -5.522 2.960 19.268 1.00 28.60 ATOM 3178 CG SER B 495 -5.522 2.960 19.268 1.00 28.60 ATOM 3178 CG SER B 495 -5.527 2.270 2.270 19.872 1.00 29.51 ATOM 3180 CA SER B 495 -5.527 2.270 19.00 29.51 ATOM 3181 C SER B 495 -5.527 2.270 10.00 29.51 ATOM 3180 CA SER B 495 -5.527 2.270 10.00 29.53 ATOM 3181 C SER B 495 -5.527 2.270 10.00 29.53 ATOM 3180 CA SER B 495 -5.527 2.270 10.00 29.03 ATOM 3180 CA SER B 496 -2.732 6.600 7.206 2.387 1.00 29.30 ATOM 3181 C SER B 496 -2.732 6.600 7.206 2.387 1.00 29.30 ATOM 3180 CA SER B 496 -2.732 6.600 7.706 2.280 7.700 2.383 ATOM 3181 C SER B 496 -3.787 5.454 2.270 19.872 1.00 29.03 ATOM 3190 CG GLN B 497 -1.169 3.349 1.00 23.280 1.00 23.30 1.00 23.30 1.00 23.30 1.00 23.30 1.00 23.30 1.00 23.30 1.00 23.30 1.00 23.30 1.00								
ATOM 3159 OSER B 492 -0.385 3.255 11.573 1.00 32.62 ATOM 3160 OG SER B 492 -0.031 4.797 12.387 1.00 34.07 ATOM 3161 N GUY B 493 -3.393 5.001 12.462 1.00 28.90 ATOM 3161 N GUY B 493 -4.559 3.393 1.001 12.462 1.00 28.90 ATOM 3163 C GLY B 493 -4.559 3.393 14.015 1.00 31.70 ATOM 3165 O GLY B 493 -4.559 3.393 14.015 1.00 31.70 ATOM 3166 C GLIE B 494 -3.498 3.497 14.799 1.00 30.49 ATOM 3166 C A LLE B 494 -3.498 3.497 17.111 1.00 25.65 ATOM 3166 C A LLE B 494 -4.220 3.249 17.111 1.00 25.72 ATOM 3166 C GLIE B 494 -4.220 3.249 17.111 1.00 25.72 ATOM 3167 C LLE B 494 -1.928 2.494 16.105 1.00 25.72 ATOM 3170 C C LLE B 494 -1.356 3.895 16.977 1.00 25.72 ATOM 3171 C C LLE B 494 -1.356 3.895 16.977 1.00 25.72 ATOM 3171 C C LLE B 494 -1.356 3.895 16.977 1.00 25.72 ATOM 3171 C C LLE B 494 -1.356 3.895 16.977 1.00 25.72 ATOM 3172 C C LLE B 494 -1.356 3.895 16.977 1.00 25.72 ATOM 3171 C C LLE B 494 -1.356 3.895 16.977 1.00 25.74 ATOM 3173 N SER B 495 -5.322 2.496 18.155 70.00 22.01 ATOM 3173 N SER B 495 -5.322 2.960 19.268 1.00 22.01 ATOM 3176 C SER B 495 -5.519 1.00 22.01 ATOM 3177 CB SER B 495 -5.519 1.556 2.995 1.00 28.65 ATOM 3178 OR SER B 495 -3.426 4.270 19.872 1.00 28.65 ATOM 3178 OR SER B 495 -3.426 4.270 19.872 1.00 28.65 ATOM 3179 N SER B 496 -5.5405 4.270 19.872 1.00 28.65 ATOM 3181 C C SER B 495 -3.426 4.270 19.872 1.00 28.65 ATOM 3181 C C SER B 495 -3.426 4.270 19.872 1.00 28.03 ATOM 3181 C C SER B 496 -5.5405 4.270 19.872 1.00 28.32 ATOM 3181 C C SER B 496 -5.405 4.270 19.872 1.00 28.32 ATOM 3183 C B SER B 496 -5.405 4.270 19.872 1.00 28.32 ATOM 3181 C C SER B 496 -5.405 4.270 19.872 1.00 28.32 ATOM 3183 C B SER B 496 -5.405 4.270 19.872 1.00 28.32 ATOM 3181 C C SER B 496 -5.405 4.270 19.872 1.00 28.33 ATOM 3183 C B SER B 496 -5.405 4.270 19.872 1.00 28.32 ATOM 3180 C G LN B 497 -3.455 2.402 22.509 1.00 28.32 ATOM 3181 C C SER B 496 -5.405 4.270 19.872 1.00 28.32 ATOM 3180 C G LN B 499 -3.283 1.00 22.265 1.00 2.273 ATOM 3190 C G LN B 499 -3.283 1.00 22.265 1.00 2.273 ATOM 3190 C G LN B 499 -3.435 1.00 23.284 1.00 2								
ATOM 3150 CB SER B 492								
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ATOM 3163 C CA GLY B 493 -4.592 4.264 12.783 1.00 26.51 ATOM 3164 0 GLY B 493 -4.559 3.393 14.015 1.00 31.70 ATOM 3165 N LLE B 494 -3.498 3.487 14.799 1.00 30.49 ATOM 3166 CA LLE B 494 -3.394 2.642 16.006 1.00 26.38 ATOM 3167 C LLE B 494 -4.220 3.249 17.111 1.00 26.60 ATOM 3168 O LLE B 494 -4.220 3.249 17.111 1.00 26.60 ATOM 3169 CB LLE B 494 -4.643 4.399 16.977 1.00 25.72 ATOM 3169 CB LLE B 494 -1.316 3.881 16.709 1.00 32.50 ATOM 3171 CG2 LLE B 494 -1.1316 3.881 16.709 1.00 32.50 ATOM 3171 CG2 LLE B 494 -1.1316 3.881 16.709 1.00 32.50 ATOM 3172 CCI LLE B 494 -1.1316 3.881 16.709 1.00 32.50 ATOM 3173 N SER B 495 -4.533 2.484 18.155 1.00 22.01 ATOM 3175 CC SER B 495 -4.533 2.484 18.155 1.00 22.01 ATOM 3175 CC SER B 495 -4.533 2.484 18.155 1.00 22.01 ATOM 3177 CB SER B 495 -4.533 2.484 18.155 1.00 22.01 ATOM 3176 O SER B 495 -4.533 2.484 18.155 1.00 22.01 ATOM 3177 CB SER B 495 -4.533 2.484 18.155 1.00 22.01 ATOM 3177 CB SER B 495 -5.512 1.793 20.264 1.00 28.50 ATOM 3179 N SER B 495 -5.519 1.793 20.264 1.00 28.52 ATOM 3178 OG SER B 495 -5.50 1.00 29.30 ATOM 3179 N SER B 496 -5.405 4.270 19.872 1.00 29.51 ATOM 3180 CA SER B 496 -5.405 4.270 19.872 1.00 29.30 ATOM 3180 CA SER B 496 -5.405 4.827 20.815 1.00 29.30 ATOM 3180 CA SER B 496 -5.405 4.827 20.815 1.00 28.33 ATOM 3183 CB SER B 496 -6.020 6.601 22.387 1.00 33.49 ATOM 3180 CA SER B 496 -5.368 7.596 23.174 1.00 42.49 ATOM 3181 C SER B 496 -6.020 6.601 22.387 1.00 33.83 ATOM 3183 CB SER B 496 -6.020 6.601 22.387 1.00 33.83 ATOM 3183 CB SER B 496 -6.020 6.601 22.387 1.00 33.83 ATOM 3189 CB GLN B 497 -3.967 4.275 23.178 1.00 33.83 ATOM 3189 CB GLN B 497 -3.967 4.275 23.178 1.00 33.83 ATOM 3189 CB GLN B 497 -3.967 4.275 23.178 1.00 33.83 ATOM 3189 CB GLN B 497 -3.967 4.275 23.178 1.00 33.83 ATOM 3189 CB GLN B 497 -3.967 4.275 23.178 1.00 33.79 ATOM 3190 CG GLN B 497 -3.967 4.275 23.178 1.00 33.79 ATOM 3191 CD GLN B 498 -3.366 6.60 1.00 31.99 ATOM 3200 CG GLN B 499 -3.988 5.000 2.385 1.00 22.39 ATOM 3200 CD GLN B 499 -3.988 5.000 2.385 1.00 22.39 ATOM 3201 CD GLN B								
ATOM 3165 N LLE B 494 -3.596 3.467 14.799 1.00 29.72 ATOM 3165 N LLE B 494 -3.394 2.642 16.006 1.00 26.38 ATOM 3166 CA LLE B 494 -4.220 3.249 17.111 1.00 26.60 ATOM 3168 O LLE B 494 -4.220 3.249 17.111 1.00 26.60 ATOM 3169 CB LLE B 494 -4.643 4.399 16.410 1.00 29.67 ATOM 3169 CB LLE B 494 -1.316 3.881 16.709 1.00 25.72 ATOM 3171 CG2 LLE B 494 -1.316 3.881 16.709 1.00 25.50 ATOM 3171 CG2 LLE B 494 -1.316 3.881 16.709 1.00 22.50 ATOM 3171 CG2 LLE B 494 -1.316 3.779 1.7077 1.00 31.75 ATOM 3173 N SER B 495 -4.533 2.484 18.155 1.00 22.01 ATOM 3174 CA SER B 495 -4.533 2.484 18.155 1.00 22.01 ATOM 3175 C SER B 495 -4.533 2.484 18.155 1.00 22.01 ATOM 3176 O SER B 495 -4.533 2.484 18.155 1.00 22.01 ATOM 3177 CB SER B 495 -4.645 4.105 19.992 1.00 29.65 ATOM 3177 CB SER B 495 -5.5122 2.960 19.872 1.00 29.51 ATOM 3178 O SER B 495 -5.519 1.793 20.264 1.00 28.51 ATOM 3179 N SER B 495 -5.519 1.793 20.264 1.00 28.51 ATOM 3179 N SER B 496 -5.405 4.827 20.815 1.00 29.30 ATOM 3180 CA SER B 496 -5.405 4.827 20.815 1.00 29.30 ATOM 3180 CA SER B 496 -5.787 5.454 22.560 1.00 31.99 ATOM 3181 C SER B 496 -3.787 5.454 22.560 1.00 31.99 ATOM 3182 O SER B 496 -5.368 7.596 23.174 1.00 28.33 ATOM 3183 CB SER B 496 -6.020 6.601 22.387 1.00 33.38 ATOM 3184 OG SER B 497 -1.693 3.419 23.254 1.00 28.33 ATOM 3185 N GLN B 497 -2.957 3.707 24.062 1.00 31.88 ATOM 3186 CA GLN B 497 -1.693 3.419 23.254 1.00 29.30 ATOM 3187 C GLN B 497 -1.693 3.419 23.254 1.00 29.30 ATOM 3189 CB GLN B 497 -1.693 3.419 23.254 1.00 29.30 ATOM 3180 CC SER B 496 -6.020 6.601 22.387 1.00 33.88 ATOM 3181 C SER B 496 -6.020 6.601 22.387 1.00 33.89 ATOM 3189 CB GLN B 497 -1.693 3.419 23.254 1.00 29.30 ATOM 3190 CG GLN B 497 -1.693 3.419 23.254 1.00 29.30 ATOM 3191 CD GLN B 497 -1.693 3.419 23.254 1.00 29.30 ATOM 3192 CB GLN B 497 -1.693 3.419 23.254 1.00 29.30 ATOM 3193 CB GLN B 497 -1.693 3.419 23.254 1.00 29.30 ATOM 3191 CD GLN B 498 -1.267 4.275 2.3178 1.00 32.75 ATOM 3192 CB GLN B 498 -1.600 3.600 2.600 3.774 1.00 25.53 ATOM 3192 CB GLN B 499 -1.800 3.775 2.7703 1.00 25.85								
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ATOM 3174 CA SER B 495						1.759		
ATOM 3174 CA SER B 495								
ATOM 3176 O SER B 495 -3.426 4.270 19.872 1.00 29.51 ATOM 3178 OG SER B 495 -5.519 1.793 20.264 1.00 29.30 ATOM 3178 OG SER B 495 -4.309 1.556 20.995 1.00 29.30 ATOM 3179 N SER B 496 -5.405 4.827 20.815 1.00 28.32 ATOM 3180 CA SER B 496 -4.872 5.920 21.606 1.00 33.49 ATOM 3181 C SER B 496 -2.732 6.047 22.657 1.00 28.33 ATOM 3181 C SER B 496 -5.787 5.454 22.550 1.00 31.99 ATOM 3181 O SER B 496 -6.020 6.601 22.387 1.00 28.33 ATOM 3183 OB SER B 496 -6.020 6.601 22.387 1.00 28.33 ATOM 3184 OG SER B 496 -5.368 7.596 23.174 1.00 42.49 ATOM 3185 N GLN B 497 -3.967 4.275 23.178 1.00 32.91 ATOM 3186 CA GLN B 497 -0.586 3.672 23.2743 1.00 30.75 ATOM 3187 C GLN B 497 -0.586 3.672 23.743 1.00 30.75 ATOM 3189 OB GLN B 497 -0.586 3.672 23.743 1.00 30.75 ATOM 3189 CB GLN B 497 -2.540 1.791 25.748 1.00 30.75 ATOM 3190 CG GLN B 497 -2.540 1.791 25.748 1.00 37.77 ATOM 3191 CD GLN B 497 -1.413 0.910 25.244 1.00 24.35 ATOM 3193 NEZ GLN B 497 -1.413 0.910 25.244 1.00 44.35 ATOM 3193 NEZ GLN B 497 -1.413 0.910 25.244 1.00 44.35 ATOM 3194 N GLN B 498 -0.457 0.650 6.172 1.00 46.49 ATOM 3195 CA GLN B 498 -0.667 2.636 21.202 1.00 25.33 ATOM 3195 CA GLN B 498 -0.667 2.636 21.202 1.00 25.33 ATOM 3199 CB GLN B 498 -0.667 2.636 21.202 1.00 26.83 ATOM 3199 CB GLN B 498 -0.667 2.636 21.202 1.00 25.33 ATOM 3199 CB GLN B 498 -0.667 2.636 21.202 1.00 25.33 ATOM 3199 CB GLN B 498 -0.667 2.636 21.202 1.00 25.33 ATOM 3199 CB GLN B 498 -0.667 2.636 21.202 1.00 25.33 ATOM 3199 CB GLN B 498 -0.667 2.636 21.202 1.00 25.33 ATOM 3199 CB GLN B 498 -0.667 2.636 21.202 1.00 25.33 ATOM 3199 CB GLN B 498 -0.667 2.636 21.202 1.00 25.33 ATOM 3199 CB GLN B 498 -0.667 2.636 21.202 1.00 25.30 ATOM 3199 CB GLN B 498 -0.667 2.636 21.202 1.00 25.30 ATOM 3199 CB GLN B 498 -0.667 2.636 21.202 1.00 25.50 ATOM 3201 CB GLN B 498 -0.667 2.636 21.202 1.00 25.50 ATOM 3201 CB GLN B 499 -0.666 61 6.807 21.224 1.00 23.90 ATOM 3201 CB GLN B 499 -0.667 6.642 23.79 1.00 36.54 ATOM 3201 CB GLN B 499 -0.666 61 6.807 21.225 1.00 25.50 ATOM 3214 C SER B 500 0.224 6.765 22.474 1.00 25.		3174		SER B 49	5 -5.322	2.960	19.268	1.00 28.60
ATOM 3178 OB SER B 495								
ATOM 3179 N SER B 495 -4.309 1.556 20.995 1.00 29.30 ATOM 3180 CA SER B 496 -5.405 4.827 20.815 1.00 28.42 ATOM 3181 C SER B 496 -4.872 5.920 21.606 1.00 31.99 ATOM 3182 O SER B 496 -2.732 6.047 22.657 1.00 28.33 ATOM 3183 CB SER B 496 -6.020 6.601 22.387 1.00 28.33 ATOM 3184 OG SER B 496 -5.368 7.596 23.174 1.00 42.49 ATOM 3185 N GLN B 497 -3.967 4.275 23.178 1.00 32.91 ATOM 3186 CA GLN B 497 -0.586 3.672 23.174 1.00 32.91 ATOM 3187 C GLN B 497 -1.693 3.419 23.254 1.00 29.03 ATOM 3189 CB GLN B 497 -0.586 3.672 23.743 1.00 30.75 ATOM 3189 CB GLN B 497 -2.540 1.791 25.748 1.00 30.75 ATOM 3189 CB GLN B 497 -2.540 1.791 25.748 1.00 30.75 ATOM 3190 CG GLN B 497 -2.540 1.791 25.748 1.00 37.77 ATOM 3191 CD GLN B 497 -1.413 0.910 25.284 1.00 24.45 ATOM 3191 CD GLN B 497 -1.413 0.910 25.284 1.00 24.455 ATOM 3193 NC2 GLN B 497 -1.413 0.910 25.284 1.00 44.35 ATOM 3193 NC2 GLN B 497 -1.413 0.910 25.284 1.00 24.659 ATOM 3193 NC2 GLN B 497 -1.413 0.910 25.284 1.00 27.21 ATOM 3195 CA GLN B 498 -0.657 2.636 21.202 1.00 25.33 ATOM 3195 CA GLN B 498 -0.657 2.636 21.202 1.00 25.33 ATOM 3195 CA GLN B 498 -0.667 3.975 20.730 1.00 26.83 ATOM 3199 CG GLN B 498 -0.665 3.975 20.730 1.00 26.83 ATOM 3199 CG GLN B 498 -0.667 3.975 20.730 1.00 26.83 ATOM 3199 CG GLN B 498 -0.667 3.975 20.730 1.00 26.83 ATOM 3199 CG GLN B 498 -0.667 3.975 20.730 1.00 26.30 ATOM 3199 CG GLN B 498 -0.667 3.975 20.730 1.00 26.30 ATOM 3200 CD GLN B 498 -0.880 1.711 19.998 1.00 26.86 ATOM 3201 CEI GLN B 498 -0.880 1.711 19.998 1.00 26.86 ATOM 3202 NC2 GLN B 498 -0.880 1.711 19.998 1.00 26.86 ATOM 3203 N GLN B 499 -0.885 5.011 20.559 1.00 36.54 ATOM 3201 CEI GLN B 498 -0.880 1.711 19.998 1.00 26.86 ATOM 3201 CEI GLN B 498 -0.880 1.711 19.998 1.00 25.55 ATOM 3201 CEI GLN B 498 -0.880 1.711 19.998 1.00 26.86 ATOM 3201 CEI GLN B 498 -0.880 1.711 19.998 1.00 26.80 ATOM 3202 N GLN B 499 -0.885 5.011 20.559 1.00 36.50 ATOM 3202 N GLN B 499 -0.885 5.011 20.559 1.00 36.50 ATOM 3201 CEI GLN B 499 -0.885 5.011 20.559 1.00 36.50 ATOM 3201 CEI GLN B 499 -0.866 6.36 ATOM 320								
ATOM 3180 CA SER B 496	ATOM	3178	OG	SER B 49	-4.309	1.556		1.00 29.30
ATOM 3181 C SER B 496								
ATOM 3183 CB SER B 496								
ATOM 3184 OG SER B 496 -5.368 7.596 23.174 1.00 42.49 ATOM 3185 N GLN B 497 -3.967 4.275 23.178 1.00 32.91 ATOM 3186 CA GLN B 497 -2.957 3.707 24.062 1.00 33.88 ATOM 3187 C GLN B 497 -1.693 3.419 23.254 1.00 29.03 ATOM 3188 O GLN B 497 -0.586 3.672 23.743 1.00 29.03 ATOM 3189 CB GLN B 497 -3.435 2.402 24.699 1.00 36.61 ATOM 3190 CG GLN B 497 -2.540 1.791 25.748 1.00 37.77 ATOM 3191 CD GLN B 497 -1.413 0.910 25.284 1.00 44.35 ATOM 3192 OE1 GLN B 497 -1.413 0.910 25.284 1.00 44.35 ATOM 3193 NEZ GLN B 497 -1.413 0.910 25.284 1.00 44.35 ATOM 3193 NEZ GLN B 498 -1.374 0.429 24.150 1.00 47.21 ATOM 3195 CA GLN B 498 -1.822 2.882 22.033 1.00 27.21 ATOM 3196 C GLN B 498 -0.667 2.6366 21.202 1.00 25.33 ATOM 3197 O GLN B 498 -0.667 2.6366 21.202 1.00 25.33 ATOM 3197 O GLN B 498 -0.065 3.975 20.730 1.00 26.83 ATOM 3198 CB GLN B 498 1.167 3.907 20.578 1.00 26.30 ATOM 3199 CG GLN B 498 -0.880 1.711 19.998 1.00 26.86 ATOM 3199 CG GLN B 498 -0.080 1.711 19.998 1.00 26.86 ATOM 3201 OE1 GLN B 498 0.096 -0.684 22.379 1.00 36.34 ATOM 3201 OE1 GLN B 498 0.947 -0.562 20.310 1.00 27.39 ATOM 3203 N GLN B 498 0.947 -0.562 20.310 1.00 24.02 ATOM 3203 N GLN B 499 -0.885 5.011 20.559 1.00 24.02 ATOM 3206 C GLN B 499 -0.388 6.296 20.125 1.00 23.90 ATOM 3207 CB GLN B 499 -0.388 6.296 20.125 1.00 23.90 ATOM 3208 C GLN B 499 -1.341 7.409 19.895 1.00 24.02 ATOM 3209 CD GLN B 499 -1.341 7.409 19.895 1.00 24.02 ATOM 3201 OE1 GLN B 499 -0.388 6.296 20.125 1.00 23.90 ATOM 3202 NCB GLN B 499 -0.388 6.296 20.125 1.00 23.90 ATOM 3203 N GLN B 499 -0.885 5.01 20.579 1.00 23.90 ATOM 3204 CA GLN B 499 -0.308 6.296 20.125 1.00 23.90 ATOM 3205 C GLN B 499 -0.661 6.807 21.224 1.00 23.57 ATOM 3206 CD GLN B 499 -0.666 6.807 21.224 1.00 23.90 ATOM 3207 CB GLN B 499 -0.885 5.00 2.254 6.806 1.00 31.52 ATOM 3208 CG GLN B 499 -0.865 5.00 2.254 6.806 1.00 23.90 ATOM 3209 CD GLN B 499 -0.865 5.00 2.254 6.806 1.00 23.90 ATOM 3201 OE1 GLN B 499 -0.865 5.50 2.500 1.00 23.90 ATOM 3202 C GLN B 499 -0.865 5.50 2.500 1.00 23.90 ATOM 3203 N GLN B 499 -0.865 5.50 2.500 1.00								
ATOM 3185 N GLN B 497 -3.967 4.275 23.178 1.00 32.91 ATOM 3186 CA GLN B 497 -2.957 3.707 24.062 1.00 33.88 ATOM 3187 C GLN B 497 -1.693 3.419 23.254 1.00 29.03 ATOM 3188 O GLN B 497 -0.586 3.672 23.743 1.00 30.561 ATOM 3189 CB GLN B 497 -0.586 3.672 23.743 1.00 30.767 ATOM 3190 CG GLN B 497 -2.540 1.791 25.748 1.00 37.77 ATOM 3191 CD GLN B 497 -2.540 1.791 25.748 1.00 37.77 ATOM 3191 CD GLN B 497 -1.413 0.910 25.248 1.00 44.35 ATOM 3192 OEI GLN B 497 -1.413 0.910 25.248 1.00 44.35 ATOM 3193 NE2 GLN B 497 -0.457 0.650 26.172 1.00 46.49 ATOM 3193 NE2 GLN B 498 -0.457 0.650 26.172 1.00 46.49 ATOM 3195 CA GLN B 498 -0.667 2.636 21.202 1.00 25.33 ATOM 3197 O GLN B 498 -0.667 2.636 21.202 1.00 25.33 ATOM 3197 O GLN B 498 -0.665 3.975 20.730 1.00 26.83 ATOM 3199 CG GLN B 498 -0.880 1.711 19.998 1.00 26.80 ATOM 3199 CG GLN B 498 -0.880 1.711 19.998 1.00 26.30 ATOM 3200 CD GLN B 498 0.010 -0.353 21.095 1.00 27.39 ATOM 3201 OCI GLN B 498 0.010 -0.353 21.095 1.00 36.34 ATOM 3201 OCI GLN B 498 0.096 -0.684 22.379 1.00 36.34 ATOM 3201 OCI GLN B 498 0.096 -0.684 22.379 1.00 36.30 ATOM 3203 N GLN B 499 -0.885 5.011 20.559 1.00 22.80 ATOM 3203 N GLN B 499 -0.885 5.011 20.559 1.00 22.80 ATOM 3204 CA GLN B 499 -0.885 5.011 20.559 1.00 22.80 ATOM 3205 C GLN B 499 -0.308 6.296 20.125 1.00 22.80 ATOM 3207 CB GLN B 499 -0.385 6.296 20.125 1.00 22.80 ATOM 3207 CB GLN B 499 -0.385 6.296 20.125 1.00 22.80 ATOM 3201 OCI GLN B 499 -0.385 6.296 20.125 1.00 22.80 ATOM 3201 CA GLN B 499 -0.385 6.296 20.125 1.00 22.80 ATOM 3201 CA GLN B 499 -0.385 6.296 20.125 1.00 22.80 ATOM 3201 CB GLN B 499 -0.385 6.296 20.125 1.00 22.80 ATOM 3201 CB GLN B 499 -0.385 6.296 20.125 1.00 22.80 ATOM 3201 CB GLN B 499 -0.385 6.296 20.125 1.00 22.80 ATOM 3201 CB GLN B 499 -0.385 6.296 20.125 1.00 22.80 ATOM 3201 CB GLN B 499 -0.385 6.296 20.125 1.00 22.80 ATOM 3202 CB GLN B 499 -0.385 6.296 20.125 1.00 22.80 ATOM 3202 CB GLN B 499 -0.385 6.296 20.125 1.00 22.80 ATOM 3202 CB GLN B 499 -0.3686 6.355 23.980 1.00 25.590 ATOM 3212 CB GLN B 499 -0.3686 6.355 23.980 1								
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ATOM 3188 O GLN B 497 -0.586 3.672 23.743 1.00 30.75 ATOM 3190 CB GLN B 497 -2.540 1.791 25.748 1.00 37.77 ATOM 3191 CD GLN B 497 -1.413 0.910 25.284 1.00 44.35 ATOM 3192 OE1 GLN B 497 -1.413 0.910 25.284 1.00 44.35 ATOM 3193 NE2 GLN B 497 -0.457 0.650 26.172 1.00 46.49 ATOM 3194 N GLN B 498 -1.822 2.882 22.033 1.00 27.21 ATOM 3195 CA GLN B 498 -0.667 2.636 21.202 1.00 25.33 ATOM 3195 CA GLN B 498 -0.065 3.975 20.730 1.00 26.83 ATOM 3195 CB GLN B 498 1.167 3.907 20.578 1.00 26.83 ATOM 3199 CG GLN B 498 -1.241 0.323 20.549 1.00 26.86 ATOM 3199 CG GLN B 498 -1.241 0.323 20.549 1.00 26.86 ATOM 3199 CG GLN B 498 0.010 -0.353 21.095 1.00 26.86 ATOM 3201 CD GLN B 498 0.010 -0.353 21.095 1.00 26.34 ATOM 3201 CD GLN B 498 0.947 -0.562 20.310 1.00 40.62 ATOM 3202 NE2 GLN B 498 0.947 -0.562 20.310 1.00 40.62 ATOM 3203 N GLN B 499 -0.885 5.011 20.559 1.00 36.50 ATOM 3203 C G GLN B 499 -0.885 5.011 20.559 1.00 24.02 ATOM 3204 CA GLN B 499 -0.885 5.011 20.559 1.00 23.57 ATOM 3205 C GLN B 499 -0.885 5.011 20.559 1.00 23.57 ATOM 3206 O GLN B 499 -0.885 5.011 20.559 1.00 23.57 ATOM 3207 CB GLN B 499 -0.386 6.296 20.125 1.00 23.57 ATOM 3207 CB GLN B 499 -0.386 6.296 20.125 1.00 23.57 ATOM 3207 CB GLN B 499 -0.386 6.296 20.125 1.00 23.57 ATOM 3207 CB GLN B 499 -0.386 6.296 20.125 1.00 23.57 ATOM 3207 CB GLN B 499 -0.386 6.296 20.125 1.00 23.57 ATOM 3207 CB GLN B 499 -3.283 8.331 18.529 1.00 37.67 ATOM 3211 NE2 GLN B 499 -3.283 8.331 18.529 1.00 37.67 ATOM 3212 N SER B 500 0.224 6.765 22.474 1.00 25.59 ATOM 3213 CA SER B 500 0.224 6.765 22.474 1.00 25.59 ATOM 3214 C SER B 500 0.290 7.061 24.997 1.00 31.89 ATOM 3215 O SER B 500 0.290 7.061 24.997 1.00 31.89 ATOM 3217 OG SER B 500 0.290 7.061 24.997 1.00 31.89 ATOM 3217 OG SER B 500 0.290 7.061 24.997 1.00 31.89 ATOM 3217 OG SER B 500 0.290 7.061 24.997 1.00 32.569 ATOM 3219 CA MET B 501 2.839 2.679 23.583 1.00 22.82 ATOM 3212 O MET B 501 2.839 2.679 23.583 1.00 22.82 ATOM 3222 CB MET B 501 2.839 2.679 23.583 1.00 22.90 ATOM 3222 CB MET B 501 2.839 2.679 23.583 1.00 22.90 ATOM 3222								
ATOM 3189 CB GLN B 497 -3.435 2.402 24.699 1.00 36.61 ATOM 3190 CG GLN B 497 -2.540 1.791 25.748 1.00 37.77 ATOM 3191 CD GLN B 497 -1.413 0.910 25.284 1.00 44.35 ATOM 3192 OE1 GLN B 497 -0.457 0.429 24.150 1.00 47.20 ATOM 3193 NE2 GLN B 498 -0.457 0.650 26.172 1.00 46.49 ATOM 3193 NE2 GLN B 498 -0.667 2.636 21.202 1.00 25.33 ATOM 3195 CA GLN B 498 -0.667 2.636 21.202 1.00 25.33 ATOM 3195 C GLN B 498 -0.665 3.975 20.730 1.00 26.86 ATOM 3199 CG GLN B 498 -0.065 3.975 20.730 1.00 26.86 ATOM 3199 CG GLN B 498 -0.880 1.711 19.998 1.00 26.86 ATOM 3199 CG GLN B 498 -1.241 0.323 20.549 1.00 27.39 ATOM 3200 CD GLN B 498 0.9047 -0.562 20.310 1.00 46.2 ATOM 3201 OE1 GLN B 498 0.947 -0.562 20.310 1.00 40.62 ATOM 3202 NE2 GLN B 498 0.9947 -0.562 20.310 1.00 40.62 ATOM 3203 N GLN B 499 -0.885 5.011 20.559 1.00 36.50 ATOM 3204 CA GLN B 499 -0.885 5.011 20.559 1.00 23.90 ATOM 3205 C GLN B 499 -0.885 5.011 20.559 1.00 23.90 ATOM 3207 CB GLN B 499 -0.885 5.011 20.559 1.00 23.90 ATOM 3207 CB GLN B 499 -0.885 5.011 20.559 1.00 23.90 ATOM 3207 CB GLN B 499 -0.386 6.296 20.125 1.00 23.90 ATOM 3207 CB GLN B 499 -0.386 6.296 20.125 1.00 23.90 ATOM 3207 CB GLN B 499 -0.388 6.296 20.125 1.00 23.90 ATOM 3207 CB GLN B 499 -0.388 6.296 20.125 1.00 23.90 ATOM 3207 CB GLN B 499 -0.388 6.296 20.125 1.00 23.90 ATOM 3207 CB GLN B 499 -0.388 6.296 20.125 1.00 23.90 ATOM 3207 CB GLN B 499 -3.993 8.430 17.520 1.00 37.67 ATOM 3210 OE1 GLN B 499 -3.993 8.430 17.520 1.00 37.67 ATOM 3211 NE2 GLN B 499 -3.543 9.159 19.560 1.00 31.52 ATOM 3211 NE2 GLN B 499 -3.543 9.159 19.560 1.00 31.52 ATOM 3212 N SER B 500 0.224 G.765 22.474 1.00 25.59 ATOM 3213 CA SER B 500 0.224 G.765 22.474 1.00 25.59 ATOM 3213 CA SER B 500 0.226 6.765 22.474 1.00 25.69 ATOM 3213 CA SER B 500 3.458 6.835 3.980 1.00 25.66 ATOM 3215 C MET B 501 3.318 4.143 23.623 1.00 25.66 ATOM 3221 C MET B 501 3.318 4.143 23.623 1.00 29.93 ATOM 3222 C MET B 501 3.318 4.143 23.623 1.00 25.66 ATOM 3222 C MET B 501 3.325 1.858 24.760 1.00 55.56 ATOM 3222 C MET B 501 3.325 1.858 24.760 1.00 55.56 ATOM								
ATOM 3191 CD GLN B 497							24.699	1.00 36.61
ATOM 3192 OE1 GLN B 497								
ATOM 3193 NE2 GLN B 497 -0.457 0.650 26.172 1.00 46.49 ATOM 3194 N GLN B 498 -1.822 2.882 22.033 1.00 27.21 ATOM 3195 CA GLN B 498 -0.667 2.636 21.202 1.00 25.33 ATOM 3196 C GLN B 498 -0.065 3.975 20.730 1.00 26.83 ATOM 3197 O GLN B 498 1.167 3.907 20.578 1.00 26.30 ATOM 3198 CB GLN B 498 -0.880 1.711 19.998 1.00 26.86 ATOM 3199 CG GLN B 498 -1.241 0.323 20.549 1.00 27.39 ATOM 3200 CD GLN B 498 0.010 -0.353 21.095 1.00 36.34 ATOM 3201 OE1 GLN B 498 0.947 -0.562 20.310 1.00 46.62 ATOM 3202 NE2 GLN B 498 0.947 -0.562 20.310 1.00 40.62 ATOM 3203 N GLN B 499 -0.885 5.011 20.559 1.00 22.80 ATOM 3204 CA GLN B 499 -0.885 5.011 20.559 1.00 23.57 ATOM 3205 C GLN B 499 -0.885 5.011 20.559 1.00 23.57 ATOM 3206 O GLN B 499 1.774 7.246 20.920 1.00 23.57 ATOM 3207 CB GLN B 499 1.774 7.246 20.920 1.00 23.57 ATOM 3208 CG GLN B 499 -1.341 7.409 19.895 1.00 27.44 ATOM 3209 CD GLN B 499 -3.283 8.331 18.529 1.00 37.67 ATOM 3210 OE1 GLN B 499 -3.283 8.331 18.529 1.00 37.67 ATOM 3210 N SER B 500 0.224 6.765 22.474 1.00 25.59 ATOM 3211 NE2 GLN B 499 -3.283 8.331 18.529 1.00 37.67 ATOM 3212 N SER B 500 0.224 6.765 22.474 1.00 25.59 ATOM 3212 N SER B 500 0.224 6.765 22.474 1.00 25.59 ATOM 3215 O SER B 500 0.224 6.765 22.474 1.00 25.66 ATOM 3217 OG SER B 500 0.290 7.061 24.907 1.00 39.66 ATOM 3217 OG SER B 500 0.290 7.061 24.907 1.00 31.89 ATOM 3218 N MET B 501 2.167 5.048 23.514 1.00 25.69 ATOM 3218 N MET B 501 2.167 5.048 23.514 1.00 25.69 ATOM 3212 O MET B 501 3.318 4.143 23.623 1.00 29.93 ATOM 3221 O MET B 501 2.167 5.048 23.514 1.00 25.69 ATOM 3221 O MET B 501 2.167 5.048 23.514 1.00 25.69 ATOM 3221 O MET B 501 2.289 1.253 2.2766 1.00 33.55 ATOM 3222 CB MET B 501 2.289 1.255 1.253 1.00 24.75 ATOM 3222 CB MET B 501 2.295 1.977 26.203 1.00 55.56 ATOM 3222 CB MET B 501 2.295 1.977 26.203 1.00 55.56 ATOM 3222 CB MET B 501 2.295 1.977 26.203 1.00 55.56 ATOM 3222 CB MET B 501 2.295 1.977 26.203 1.00 55.56 ATOM 3222 CB MET B 501 2.295 1.977 26.203 1.00 55.56 ATOM 3225 CB MET B 501 2.295 1.977 26.203 1.00 55.56 ATOM 3225 CB MET B 501 2.295								
ATOM 3195 CA GLN B 498				GLN B 49	-0.457			1.00 46.49
ATOM 3196 C GLN B 498								
ATOM 3197 O GLN B 498								
ATOM 3199 CG GLN B 498	MOTA	3197	0	GLN B 49	1.167	3.907	20.578	1.00 26.30
ATOM 3200 CD GLN B 498 0.010 -0.353 21.095 1.00 36.34 ATOM 3201 OE1 GLN B 498 0.947 -0.562 20.310 1.00 40.62 ATOM 3202 NE2 GLN B 498 0.096 -0.684 22.379 1.00 36.50 ATOM 3203 N GLN B 499 -0.885 5.011 20.559 1.00 24.02 ATOM 3204 CA GLN B 499 -0.308 6.296 20.125 1.00 24.02 ATOM 3205 C GLN B 499 0.661 6.807 21.224 1.00 23.57 ATOM 3206 O GLN B 499 1.774 7.246 20.920 1.00 23.90 ATOM 3207 CB GLN B 499 -1.341 7.409 19.895 1.00 27.44 ATOM 3208 CG GLN B 499 -2.178 7.291 18.606 1.00 32.73 ATOM 3209 CD GLN B 499 -3.283 8.331 18.529 1.00 37.667 ATOM 3210 OE1 GLN B 499 -3.993 8.430 17.520 1.00 39.666 ATOM 3211 NE2 GLN B 499 -3.543 9.159 19.560 1.00 31.52 ATOM 3212 N SER B 500 0.224 6.765 22.474 1.00 25.59 ATOM 3213 CA SER B 500 1.070 7.206 23.598 1.00 25.90 ATOM 3214 C SER B 500 2.331 6.356 23.682 1.00 25.66 ATOM 3217 OG SER B 500 0.290 7.061 24.907 1.00 31.89 ATOM 3217 OG SER B 500 0.290 7.061 24.907 1.00 31.89 ATOM 3217 OG SER B 500 -0.676 8.089 25.040 1.00 36.59 ATOM 3218 N MET B 501 2.167 5.048 23.514 1.00 22.82 ATOM 3212 C MET B 501 3.318 4.143 23.623 1.00 29.93 ATOM 3221 O MET B 501 3.318 4.143 23.623 1.00 29.93 ATOM 3222 C MET B 501 3.318 4.143 23.623 1.00 29.93 ATOM 3222 C MET B 501 3.318 4.143 23.623 1.00 29.93 ATOM 3222 C MET B 501 2.839 2.679 23.583 1.00 34.14 ATOM 3223 CG MET B 501 2.839 2.679 23.583 1.00 34.14 ATOM 3222 C MET B 501 2.839 2.679 23.583 1.00 34.14 ATOM 3222 C MET B 501 3.352 1.858 24.760 1.00 51.81 ATOM 3225 C MET B 501 2.839 2.679 23.583 1.00 34.14 ATOM 3222 C MET B 501 2.839 2.679 23.583 1.00 34.14 ATOM 3222 C MET B 501 2.839 2.679 23.583 1.00 34.14 ATOM 3225 C MET B 501 2.839 2.679 23.583 1.00 55.56 ATOM 3226 N ARG B 502 3.870 4.712 21.323 1.00 24.75								
ATOM 3202 NE2 GLN B 498								
ATOM 3203 N GLN B 499								
ATOM 3204 CA GLN B 499							20.559	
ATOM 3206 O GLN B 499 1.774 7.246 20.920 1.00 23.90 ATOM 3207 CB GLN B 499 -1.341 7.409 19.895 1.00 27.44 ATOM 3208 CG GLN B 499 -2.178 7.291 18.606 1.00 32.73 ATOM 3209 CD GLN B 499 -3.283 8.331 18.529 1.00 37.67 ATOM 3210 OE1 GLN B 499 -3.993 8.430 17.520 1.00 39.66 ATOM 3211 NE2 GLN B 499 -3.543 9.159 19.560 1.00 31.52 ATOM 3212 N SER B 500 0.224 6.765 22.474 1.00 25.59 ATOM 3213 CA SER B 500 1.070 7.206 23.598 1.00 25.90 ATOM 3214 C SER B 500 2.331 6.356 23.682 1.00 25.66 ATOM 3215 O SER B 500 3.458 6.835 23.980 1.00 25.66 ATOM 3216 CB SER B 500 0.290 7.061 24.907 1.00 31.89 ATOM 3217 OG SER B 500 -0.676 8.089 25.040 1.00 36.59 ATOM 3218 N MET B 501 2.167 5.048 23.514 1.00 25.69 ATOM 3219 CA MET B 501 3.318 4.143 23.623 1.00 29.93 ATOM 3220 C MET B 501 4.360 4.391 22.538 1.00 29.93 ATOM 3221 O MET B 501 4.360 4.391 22.538 1.00 29.93 ATOM 3222 CB MET B 501 2.839 2.679 23.583 1.00 34.14 ATOM 3223 CG MET B 501 3.352 1.858 24.760 1.00 55.56 ATOM 3224 SD MET B 501 2.295 1.977 26.203 1.00 55.56 ATOM 3225 CE MET B 501 2.301 3.688 26.660 1.00 55.56 ATOM 3225 CE MET B 501 2.301 3.688 26.660 1.00 55.56 ATOM 3225 CE MET B 501 2.301 3.688 26.660 1.00 55.56 ATOM 3225 CE MET B 501 2.301 3.688 26.660 1.00 59.00 ATOM 3226 N ARG B 502 3.870 4.712 21.323 1.00 24.75					-0.308	6.296	20.125	1.00 22.80
ATOM 3207 CB GLN B 499 -1.341 7.409 19.895 1.00 27.44 ATOM 3208 CG GLN B 499 -2.178 7.291 18.606 1.00 32.73 ATOM 3209 CD GLN B 499 -3.283 8.331 18.529 1.00 37.67 ATOM 3210 OE1 GLN B 499 -3.993 8.430 17.520 1.00 39.66 ATOM 3211 NE2 GLN B 499 -3.543 9.159 19.560 1.00 31.52 ATOM 3212 N SER B 500 0.224 6.765 22.474 1.00 25.59 ATOM 3213 CA SER B 500 1.070 7.206 23.598 1.00 25.90 ATOM 3214 C SER B 500 2.331 6.356 23.682 1.00 25.66 ATOM 3215 O SER B 500 3.458 6.835 23.980 1.00 22.82 ATOM 3216 CB SER B 500 0.290 7.061 24.907 1.00 31.89 ATOM 3217 OG SER B 500 -0.676 8.089 25.040 1.00 36.59 ATOM 3218 N MET B 501 2.167 5.048 23.514 1.00 25.69 ATOM 3219 CA MET B 501 3.318 4.143 23.623 1.00 29.93 ATOM 3220 C MET B 501 4.360 4.391 22.538 1.00 29.93 ATOM 3221 O MET B 501 5.594 4.357 22.766 1.00 23.35 ATOM 3222 CB MET B 501 2.839 2.679 23.583 1.00 34.14 ATOM 3223 CG MET B 501 3.352 1.858 24.760 1.00 55.56 ATOM 3224 SD MET B 501 2.295 1.977 26.203 1.00 55.56 ATOM 3225 CE MET B 501 2.301 3.688 26.660 1.00 59.00 ATOM 3225 CE MET B 501 2.301 3.688 26.660 1.00 59.00 ATOM 3225 CE MET B 501 2.301 3.688 26.660 1.00 59.00								
ATOM 3208 CG GLN B 499 -2.178 7.291 18.606 1.00 32.73 ATOM 3209 CD GLN B 499 -3.283 8.331 18.529 1.00 37.67 ATOM 3210 OE1 GLN B 499 -3.993 8.430 17.520 1.00 39.66 ATOM 3211 NE2 GLN B 499 -3.543 9.159 19.560 1.00 31.52 ATOM 3212 N SER B 500 0.224 6.765 22.474 1.00 25.59 ATOM 3213 CA SER B 500 1.070 7.206 23.598 1.00 25.90 ATOM 3214 C SER B 500 2.331 6.356 23.682 1.00 25.66 ATOM 3215 O SER B 500 3.458 6.835 23.980 1.00 22.82 ATOM 3216 CB SER B 500 0.290 7.061 24.907 1.00 31.89 ATOM 3217 OG SER B 500 -0.676 8.089 25.040 1.00 36.59 ATOM 3218 N MET B 501 2.167 5.048 23.514 1.00 25.69 ATOM 3219 CA MET B 501 3.318 4.143 23.623 1.00 29.93 ATOM 3220 C MET B 501 4.360 4.391 22.538 1.00 29.93 ATOM 3221 O MET B 501 4.360 4.391 22.538 1.00 28.16 ATOM 3222 CB MET B 501 2.839 2.679 23.583 1.00 34.14 ATOM 3223 CG MET B 501 3.352 1.858 24.760 1.00 55.56 ATOM 3224 SD MET B 501 2.295 1.977 26.203 1.00 55.56 ATOM 3225 CE MET B 501 2.301 3.688 26.660 1.00 59.00 ATOM 3225 CE MET B 501 2.301 3.688 26.660 1.00 59.00 ATOM 3225 CE MET B 501 2.301 3.688 26.660 1.00 59.00								
ATOM 3210 OE1 GLN B 499 -3.993 8.430 17.520 1.00 39.66 ATOM 3211 NE2 GLN B 499 -3.543 9.159 19.560 1.00 31.52 ATOM 3212 N SER B 500 0.224 6.765 22.474 1.00 25.59 ATOM 3213 CA SER B 500 1.070 7.206 23.598 1.00 25.90 ATOM 3214 C SER B 500 2.331 6.356 23.682 1.00 25.66 ATOM 3215 O SER B 500 3.458 6.835 23.980 1.00 22.82 ATOM 3216 CB SER B 500 0.290 7.061 24.907 1.00 31.89 ATOM 3217 OG SER B 500 -0.676 8.089 25.040 1.00 36.59 ATOM 3218 N MET B 501 2.167 5.048 23.514 1.00 25.69 ATOM 3219 CA MET B 501 3.318 4.143 23.623 1.00 29.93 ATOM 3220 C MET B 501 4.360 4.391 22.538 1.00 29.93 ATOM 3221 O MET B 501 4.360 4.391 22.538 1.00 29.93 ATOM 3222 CB MET B 501 2.839 2.679 23.583 1.00 34.14 ATOM 3223 CG MET B 501 3.352 1.858 24.760 1.00 55.56 ATOM 3224 SD MET B 501 2.295 1.977 26.203 1.00 55.56 ATOM 3225 CE MET B 501 2.301 3.688 26.660 1.00 59.00 ATOM 3226 N ARG B 502 3.870 4.712 21.323 1.00 24.75	MOTA	3208	CG	GLN B 49	-2.178	7.291	18.606	1.00 32.73
ATOM 3211 NE2 GLN B 499 -3.543 9.159 19.560 1.00 31.52 ATOM 3212 N SER B 500 0.224 6.765 22.474 1.00 25.59 ATOM 3213 CA SER B 500 1.070 7.206 23.598 1.00 25.90 ATOM 3214 C SER B 500 2.331 6.356 23.682 1.00 25.66 ATOM 3215 O SER B 500 3.458 6.835 23.980 1.00 22.82 ATOM 3216 CB SER B 500 0.290 7.061 24.907 1.00 31.89 ATOM 3217 OG SER B 500 -0.676 8.089 25.040 1.00 36.59 ATOM 3218 N MET B 501 2.167 5.048 23.514 1.00 25.69 ATOM 3219 CA MET B 501 3.318 4.143 23.623 1.00 29.93 ATOM 3220 C MET B 501 4.360 4.391 22.538 1.00 29.93 ATOM 3221 O MET B 501 4.360 4.391 22.538 1.00 28.16 ATOM 3222 CB MET B 501 5.594 4.357 22.766 1.00 23.35 ATOM 3223 CG MET B 501 3.352 1.858 24.760 1.00 51.81 ATOM 3224 SD MET B 501 2.295 1.977 26.203 1.00 55.56 ATOM 3225 CE MET B 501 2.301 3.688 26.660 1.00 59.00 ATOM 3226 N ARG B 502 3.870 4.712 21.323 1.00 24.75								
ATOM 3212 N SER B 500 0.224 6.765 22.474 1.00 25.59 ATOM 3213 CA SER B 500 1.070 7.206 23.598 1.00 25.90 ATOM 3214 C SER B 500 2.331 6.356 23.682 1.00 25.66 ATOM 3215 O SER B 500 3.458 6.835 23.980 1.00 22.82 ATOM 3216 CB SER B 500 0.290 7.061 24.907 1.00 31.89 ATOM 3217 OG SER B 500 -0.676 8.089 25.040 1.00 36.59 ATOM 3218 N MET B 501 2.167 5.048 23.514 1.00 25.69 ATOM 3219 CA MET B 501 3.318 4.143 23.623 1.00 29.93 ATOM 3220 C MET B 501 4.360 4.391 22.538 1.00 29.93 ATOM 3221 O MET B 501 5.594 4.357 22.766 1.00 23.35 ATOM 3222 CB MET B 501 2.839 2.679 23.583 1.00 34.14 ATOM 3223 CG MET B 501 3.352 1.858 24.760 1.00 51.81 ATOM 3224 SD MET B 501 2.295 1.977 26.203 1.00 59.00 ATOM 3225 CE MET B 501 2.301 3.688 26.660 1.00 59.00 ATOM 3226 N ARG B 502 3.870 4.712 21.323 1.00 24.75								1.00 31.52
ATOM 3214 C SER B 500 2.331 6.356 23.682 1.00 25.66 ATOM 3215 O SER B 500 3.458 6.835 23.980 1.00 22.82 ATOM 3216 CB SER B 500 0.290 7.061 24.907 1.00 31.89 ATOM 3217 OG SER B 500 -0.676 8.089 25.040 1.00 36.59 ATOM 3218 N MET B 501 2.167 5.048 23.514 1.00 25.69 ATOM 3219 CA MET B 501 3.318 4.143 23.623 1.00 29.93 ATOM 3220 C MET B 501 4.360 4.391 22.538 1.00 28.16 ATOM 3221 O MET B 501 5.594 4.357 22.766 1.00 23.35 ATOM 3222 CB MET B 501 2.839 2.679 23.583 1.00 34.14 ATOM 3223 CG MET B 501 3.352 1.858 24.760 1.00 51.81 ATOM 3224 SD MET B 501 2.295 1.977 26.203 1.00 55.56 ATOM 3225 CE MET B 501 2.301 3.688 26.660 1.00 59.00 ATOM 3226 N ARG B 502 3.870 4.712 21.323 1.00 24.75								1.00 25.59
ATOM 3215 O SER B 500 3.458 6.835 23.980 1.00 22.82 ATOM 3216 CB SER B 500 0.290 7.061 24.907 1.00 31.89 ATOM 3217 OG SER B 500 -0.676 8.089 25.040 1.00 36.59 ATOM 3218 N MET B 501 2.167 5.048 23.514 1.00 25.69 ATOM 3219 CA MET B 501 3.318 4.143 23.623 1.00 29.93 ATOM 3220 C MET B 501 4.360 4.391 22.538 1.00 28.16 ATOM 3221 O MET B 501 5.594 4.357 22.766 1.00 23.35 ATOM 3222 CB MET B 501 2.839 2.679 23.583 1.00 34.14 ATOM 3223 CG MET B 501 3.352 1.858 24.760 1.00 51.81 ATOM 3224 SD MET B 501 2.295 1.977 26.203 1.00 55.56 ATOM 3225 CE MET B 501 2.301 3.688 26.660 1.00 59.00 ATOM 3226 N ARG B 502 3.870 4.712 21.323 1.00 24.75								
ATOM 3217 OG SER B 500 -0.676 8.089 25.040 1.00 36.59 ATOM 3218 N MET B 501 2.167 5.048 23.514 1.00 25.69 ATOM 3219 CA MET B 501 3.318 4.143 23.623 1.00 29.93 ATOM 3220 C MET B 501 4.360 4.391 22.538 1.00 28.16 ATOM 3221 O MET B 501 5.594 4.357 22.766 1.00 23.35 ATOM 3222 CB MET B 501 2.839 2.679 23.583 1.00 34.14 ATOM 3223 CG MET B 501 3.352 1.858 24.760 1.00 51.81 ATOM 3224 SD MET B 501 2.295 1.977 26.203 1.00 55.56 ATOM 3225 CE MET B 501 2.301 3.688 26.660 1.00 59.00 ATOM 3226 N ARG B 502 3.870 4.712 21.323 1.00 24.75								
ATOM 3218 N MET B 501 2.167 5.048 23.514 1.00 25.69 ATOM 3219 CA MET B 501 3.318 4.143 23.623 1.00 29.93 ATOM 3220 C MET B 501 4.360 4.391 22.538 1.00 28.16 ATOM 3221 O MET B 501 5.594 4.357 22.766 1.00 23.35 ATOM 3222 CB MET B 501 2.839 2.679 23.583 1.00 34.14 ATOM 3223 CG MET B 501 3.352 1.858 24.760 1.00 51.81 ATOM 3224 SD MET B 501 2.295 1.977 26.203 1.00 55.56 ATOM 3225 CE MET B 501 2.301 3.688 26.660 1.00 59.00 ATOM 3226 N ARG B 502 3.870 4.712 21.323 1.00 24.75	MOTA	3216	CB		0.290			
ATOM 3219 CA MET B 501 3.318 4.143 23.623 1.00 29.93 ATOM 3220 C MET B 501 4.360 4.391 22.538 1.00 28.16 ATOM 3221 O MET B 501 5.594 4.357 22.766 1.00 23.35 ATOM 3222 CB MET B 501 2.839 2.679 23.583 1.00 34.14 ATOM 3223 CG MET B 501 3.352 1.858 24.760 1.00 51.81 ATOM 3224 SD MET B 501 2.295 1.977 26.203 1.00 55.56 ATOM 3225 CE MET B 501 2.301 3.688 26.660 1.00 59.00 ATOM 3226 N ARG B 502 3.870 4.712 21.323 1.00 24.75								
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ATOM 3222 CB MET B 501 2.839 2.679 23.583 1.00 34.14 ATOM 3223 CG MET B 501 3.352 1.858 24.760 1.00 51.81 ATOM 3224 SD MET B 501 2.295 1.977 26.203 1.00 55.56 ATOM 3225 CE MET B 501 2.301 3.688 26.660 1.00 59.00 ATOM 3226 N ARG B 502 3.870 4.712 21.323 1.00 24.75								
ATOM 3223 CG MET B 501 3.352 1.858 24.760 1.00 51.81 ATOM 3224 SD MET B 501 2.295 1.977 26.203 1.00 55.56 ATOM 3225 CE MET B 501 2.301 3.688 26.660 1.00 59.00 ATOM 3226 N ARG B 502 3.870 4.712 21.323 1.00 24.75								
ATOM 3225 CE MET B 501 2.301 3.688 26.660 1.00 59.00 ATOM 3226 N ARG B 502 3.870 4.712 21.323 1.00 24.75	ATOM	3223	CG	MET B 50	L 3.352	1.858	24.760	1.00 51.81
ATOM 3226 N ARG B 502 3.870 4.712 21.323 1.00 24.75								
ATOM 3227 CA ARG B 502 4.763 4.948 20.191 1.00 22.72						4.712		1.00 24.75
	MOTA		CA	ARG B 50	4.763	4.948	20.191	1.00 22.72

ATOM 3231 CG ARG B 502	ATOM ATOM	3228 3229	C O	ARG B		5.566 6.783	6.239 6.283	20.402	1.00 20.84 1.00 22.79
ATOM 3233 CD ARG B 502	MOTA	3230	CB	ARG B	502	3.997	5.060	18.844	1.00 21.16
ATOM 3235 NH1 ARG B 502 6.991 4.154 13.877 1.00 22.773 ATOM 3235 NH1 ARG B 502 6.991 4.154 13.877 1.00 22.39 ATOM 3237 N LEU B 503 4.858 7.238 20.884 1.00 38.80 ATOM 3239 C LEU B 503 4.858 7.238 20.884 1.00 18.40 ATOM 3239 C LEU B 503 4.858 7.238 20.884 1.00 18.40 ATOM 3239 C LEU B 503 6.613 8.261 22.230 1.00 19.31 ATOM 3240 O LEU B 503 7.741 8.261 22.230 1.00 19.95 ATOM 3240 O LEU B 503 7.741 8.712 22.132 1.00 19.95 ATOM 3241 CB LEU B 503 7.741 8.712 22.132 1.00 19.95 ATOM 3242 CG LEU B 503 5.668 11.650 29.952 1.00 20.86 ATOM 3242 CGL LEU B 503 5.668 11.650 29.952 1.00 20.86 ATOM 3245 CD LEU B 503 5.668 11.650 29.952 1.00 20.86 ATOM 3245 CD LEU B 503 5.668 11.650 29.952 1.00 20.86 ATOM 3245 CD LEU B 503 5.668 11.650 29.952 1.00 20.23 ATOM 3245 CD LEU B 504 6.243 7.7677 23.700 1.00 22.33 ATOM 3245 CD LEU B 504 6.243 7.7677 23.700 1.00 22.33 ATOM 3245 CD LEU B 504 6.243 7.7677 23.700 1.00 22.33 ATOM 3245 CD LEU B 504 6.243 7.7677 23.700 1.00 23.23 ATOM 3245 CD LEU B 504 6.243 7.7677 23.700 1.00 23.26 ATOM 3250 N ASN B 505 8.159 6.501 23.864 1.00 23.86 ATOM 3250 N ASN B 505 8.159 6.501 25.488 1.00 23.86 ATOM 3250 N ASN B 505 8.159 6.501 25.488 1.00 23.86 ATOM 3251 CA ASN B 505 9.259 4.578 22.525 1.00 22.57 ATOM 3252 C ASN B 505 10.180 5.384 21.611 1.00 23.25 ATOM 3253 CD ASN B 505 10.180 5.384 21.611 1.00 23.25 ATOM 3255 CD ASN B 505 8.857 1.971 23.718 1.00 24.52 ATOM 3255 CD ASN B 505 8.857 1.971 23.718 1.00 24.52 ATOM 3255 CD ASN B 505 8.857 1.971 23.718 1.00 24.52 ATOM 3255 CD ASN B 505 8.857 1.971 23.718 1.00 24.50 ATOM 3257 ND2 ASN B 505 8.857 1.971 23.718 1.00 24.50 ATOM 3257 ND2 ASN B 505 8.857 1.971 23.718 1.00 24.50 ATOM 3266 CD LEU B 506 11.320 ATOM 3261 CD LEU B 506 11.320 ATOM 3261 CD LEU B 506 11.320 ATOM 3262 CD LEU B 506 12.558 ATOM 3261 CD LEU B 506 12.558 ATOM 3261 CD LEU B 506 12.558 ATOM 3261 CD LEU B 507 12.444 8.987 23.794 1.00 22.77 ATOM 3262 CD LEU B 507 12.444 8.987 23.794 1.00 23.77 ATOM 3262 CD LEU B 507 12.444 8.987 23.794 1.00 23.77 ATOM 3262 CD LEU B 507 12.444 8.987 23.794 1.00 23.77									
ATOM 3236 NH2 ARG B 502 6.991 4.154 13.877 1.00 22.39 ATOM 3237 N LEU B 503 6.891 2.829 15.534 1.00 30.80 ATOM 3238 CA LEU B 503 5.532 8.520 21.205 1.00 21.85 ATOM 3239 C LEU B 503 5.532 8.520 21.205 1.00 21.85 ATOM 3240 O LEU B 503 7.741 8.712 22.132 1.00 19.93 ATOM 3241 CB LEU B 503 7.741 8.712 22.132 1.00 19.93 ATOM 3242 CG LEU B 503 5.00 10.914 22.034 1.00 20.85 ATOM 3242 CG LEU B 503 5.00 10.914 22.034 1.00 20.85 ATOM 3242 CG LEU B 503 5.00 10.914 22.034 1.00 22.32 ATOM 3244 CD2 LEU B 503 5.00 10.914 22.034 1.00 22.34 ATOM 3244 CD2 LEU B 503 5.00 10.914 22.034 1.00 22.34 ATOM 3245 CD2 LEU B 503 5.00 10.914 22.034 1.00 22.34 ATOM 3245 CD2 LEU B 503 5.00 10.914 22.034 1.00 22.34 ATOM 3245 CD2 LEU B 503 5.00 10.914 22.034 1.00 22.34 ATOM 3245 CD2 LEU B 503 5.00 10.914 22.034 1.00 22.34 ATOM 3245 CD2 LEU B 503 5.00 10.914 22.034 1.00 22.34 ATOM 3245 CD2 LEU B 503 5.00 10.914 22.034 1.00 22.34 ATOM 3245 CD2 LEU B 503 5.00 10.914 22.034 1.00 22.03 ATOM 3245 CD2 LEU B 503 6.00 10.914 22.034 1.00 22.03 ATOM 3245 CD2 LEU B 503 6.00 10.914 22.034 1.00 22.03 ATOM 3245 CD2 LEU B 504 6.533 6.501 23.846 1.00 22.04 ATOM 3250 N ASN B 505 8.159 5.398 23.039 1.00 21.61 ATOM 3251 CD2 LEU B 504 6.533 6.501 25.488 1.00 23.65 ATOM 3252 C ASN B 505 10.180 5.384 21.611 1.00 23.21 ATOM 3252 C ASN B 505 10.180 5.384 21.617 1.00 22.57 ATOM 3255 CD3 ASN B 505 10.180 5.384 21.617 1.00 22.57 ATOM 3255 CD3 ASN B 505 8.271 2.267 22.745 1.00 22.57 ATOM 3255 CD3 ASN B 505 8.271 2.267 22.745 1.00 22.57 ATOM 3256 CD1 ASN B 505 8.957 1.917 1.217 1.00 22.51 ATOM 3250 CD3 ASN B 505 8.271 1.2267 22.745 1.00 22.57 ATOM 3256 CD1 ASN B 505 8.271 1.2267 22.745 1.00 22.57 ATOM 3256 CD2 LEU B 506 9.602 6.259 20.753 1.00 22.31 ATOM 3260 C LEU B 506 9.602 6.259 20.753 1.00 22.34 ATOM 3261 C LEU B 506 9.602 6.259 20.753 1.00 22.36 ATOM 3261 C LEU B 506 9.658 7.870 18.888 1.00 22.74 ATOM 3261 C LEU B 507 10.696 8.797 1.181 1.00 22.50 ATOM 3261 C LEU B 507 10.696 8.797 1.181 1.00 22.50 ATOM 3262 CD LEU B 507 10.696 8.797 1.181 1.00 22.50 ATOM 3262 CD LEU B									
ATOM 3238 CA LEU B 503		3235	NH1	ARG B	502	6.991	4.154	13.877	
ATOM 3238 CA LEU B 503									
ATOM 3241 CB LEU B 503	ATOM	3238	CA	LEU B	503	5.532	8.520	21.205	1.00 21.85
ATOM 3242 CG LEU B 503									
ATOM 3244 CD2 LEU B 503	ATOM	3241	CB	LEU B	503	4.485	9.527	21.670	1.00 20.32
ATOM 3245 N ALA B 504 6.243 7.577 23.330 1.00 22.73 ATOM 3245 N ALA B 504 6.243 7.577 23.330 1.00 22.43 ATOM 3246 CA ALA B 504 7.227 7.276 24.372 1.00 23.26 ATOM 3247 C ALA B 504 8.379 6.431 23.864 1.00 23.81 ATOM 3248 O ALA B 504 9.581 6.708 24.146 1.00 22.74 ATOM 3249 CB ALA B 504 6.533 6.501 25.488 1.00 23.86 ATOM 3250 N ASN B 505 6.533 6.501 25.488 1.00 23.86 ATOM 3251 CA ASN B 505 9.259 4.578 22.525 1.00 22.57 ATOM 3251 CA ASN B 505 9.259 4.578 22.525 1.00 22.57 ATOM 3252 C ASN B 505 10.180 5.384 21.611 1.00 23.21 ATOM 3253 O ASN B 505 10.180 5.384 21.611 1.00 23.21 ATOM 3255 CG ASN B 505 10.180 5.384 21.611 1.00 23.21 ATOM 3255 CG ASN B 505 10.180 5.384 21.611 1.00 23.21 ATOM 3255 CG ASN B 505 8.675 3.365 21.765 1.00 26.72 ATOM 3255 CG ASN B 505 8.675 3.365 21.765 1.00 26.72 ATOM 3255 CG ASN B 505 8.675 3.365 21.765 1.00 26.72 ATOM 3257 ND2 ASN B 505 8.957 1.971 23.718 1.00 40.44 ATOM 3257 ND2 ASN B 505 7.152 1.635 22.496 1.00 33.99 ATOM 3258 N LEU B 506 9.602 6.259 20.763 1.00 21.36 ATOM 3259 CA LEU B 506 10.482 7.053 19.995 1.00 22.31 ATOM 3260 C LEU B 506 11.320 8.013 20.744 1.00 24.19 ATOM 3261 O LEU B 506 11.320 8.013 20.744 1.00 24.19 ATOM 3262 CB LEU B 506 11.320 8.013 20.744 1.00 22.34 ATOM 3263 CG LEU B 506 11.320 8.013 20.744 1.00 22.37 ATOM 3264 CD1 LEU B 506 8.688 8.166 17.036 1.00 33.79 ATOM 3265 CD2 LEU B 506 8.068 8.166 17.036 1.00 33.79 ATOM 3267 CA LEU B 506 9.658 7.870 18.898 1.00 22.24 ATOM 3267 CA LEU B 506 9.658 7.870 18.898 1.00 22.24 ATOM 3268 C LEU B 507 10.696 8.705 21.701 1.00 21.63 ATOM 3267 CA LEU B 507 10.696 8.705 21.701 1.00 21.63 ATOM 3270 CB LEU B 507 10.696 8.705 21.701 1.00 21.63 ATOM 3270 CB LEU B 507 10.696 8.705 21.701 1.00 21.63 ATOM 3270 CB LEU B 507 10.444 8.987 23.394 1.00 23.77 ATOM 3268 C LEU B 507 10.696 8.705 22.291 1.00 27.26 ATOM 3270 CB LEU B 507 10.596 8.705 22.291 1.00 27.26 ATOM 3270 CB LEU B 507 10.696 8.705 22.291 1.00 27.26 ATOM 3270 CB LEU B 507 10.696 8.705 22.291 1.00 27.26 ATOM 3270 CB LEU B 507 10.441 2.382 22.995 1.00 29.97 ATOM 3280 C C LEU B 5									
ATOM 3247 C ALA B 504 7.227 7.276 24.372 1.00 23.26 ATOM 3247 C ALA B 504 8.79 6.431 23.864 1.00 23.81 ATOM 3249 CB ALA B 504 9.581 6.708 24.146 1.00 22.74 ATOM 3249 CB ALA B 504 6.533 6.501 25.488 1.00 23.86 ATOM 3250 N ASN B 505 6.533 6.501 25.488 1.00 23.86 ATOM 3251 CA ASN B 505 9.259 4.578 22.525 1.00 22.57 ATOM 3252 C ASN B 505 10.180 5.384 21.611 1.00 23.21 ATOM 3252 C ASN B 505 10.180 5.384 21.611 1.00 23.21 ATOM 3253 O ASN B 505 11.244 5.219 21.611 1.00 23.21 ATOM 3255 CG ASN B 505 11.242 5.219 21.611 1.00 23.21 ATOM 3255 CG ASN B 505 18.675 3.365 21.765 1.00 26.72 ATOM 3255 CG ASN B 505 8.271 2.267 22.745 1.00 34.58 ATOM 3257 ND2 ASN B 505 7.152 1.635 22.496 1.00 33.99 ATOM 3258 N LEU B 506 9.602 6.259 20.763 1.00 21.36 ATOM 3250 CA LEU B 506 10.482 7.053 19.905 1.00 22.31 ATOM 3250 CA LEU B 506 10.482 7.053 19.905 1.00 22.31 ATOM 3261 O LEU B 506 11.350 8.013 20.7744 1.00 24.49 ATOM 3262 CB LEU B 506 12.515 8.189 20.538 1.00 23.77 ATOM 3262 CB LEU B 506 9.658 7.870 18.888 1.00 23.77 ATOM 3263 CG LEU B 506 8.871 7.129 17.827 1.00 29.50 ATOM 3264 CD1 LEU B 506 8.871 7.129 17.827 1.00 29.50 ATOM 3265 CD2 LEU B 506 8.871 7.129 17.827 1.00 29.50 ATOM 3266 N LEU B 506 8.871 7.129 17.827 1.00 29.50 ATOM 3267 CA LEU B 506 9.791 6.332 16.912 1.00 33.24 ATOM 3268 C LEU B 506 8.871 7.129 17.827 1.00 29.50 ATOM 3267 CA LEU B 507 10.696 8.791 6.332 16.912 1.00 33.24 ATOM 3267 CA LEU B 507 10.696 8.791 6.332 16.912 1.00 33.24 ATOM 3267 CA LEU B 507 10.596 8.791 6.332 12.00 2.377 ATOM 3268 C LEU B 507 10.596 8.791 6.332 12.00 2.371 1.00 21.63 ATOM 3270 CB LEU B 507 10.575 10.633 23.222 1.00 27.26 ATOM 3270 CB LEU B 507 10.575 10.633 23.222 1.00 27.26 ATOM 3270 CB LEU B 507 10.575 10.633 23.222 1.00 27.26 ATOM 3270 CB LEU B 507 10.474 4.89 87 23.394 1.00 23.77 ATOM 3269 C LEU B 507 10.575 10.633 23.222 1.00 27.26 ATOM 3270 CB LEU B 507 10.575 10.533 23.24 CD 1.00 20.25 ATOM 3270 CB LEU B 507 10.575 10.633 23.222 1.00 27.26 ATOM 3270 CB LEU B 509 14.493 0.575 10.00 22.25 1.00 20.25 1.00 20.25 1.00 1.00 20.25 1.00 1.0	ATOM	3244	CD2	LEU B	503	3.879	11.683	22.701	1.00 22.73
ATOM 3249 CB ALAB 504 9.581 6.708 24.146 1.00 22.74 ATOM 3250 N ASN B 505 8.159 5.398 23.039 1.00 21.57 ATOM 3251 CA ASN B 505 9.259 4.578 22.525 1.00 22.57 ATOM 3252 C ASN B 505 10.180 5.384 21.611 1.00 22.51 ATOM 3253 O ASN B 505 11.424 5.219 21.617 1.00 22.51 ATOM 3255 CB ASN B 505 11.424 5.219 21.617 1.00 22.51 ATOM 3255 CB ASN B 505 12.267 22.475 1.00 26.75 ATOM 3255 CB ASN B 505 8.271 2.267 22.745 1.00 26.75 ATOM 3256 ODI ASN B 505 7.152 1.635 22.496 1.00 34.72 ATOM 3258 N LEU B 506 9.602 6.259 20.763 1.00 21.36 ATOM 3259 CA LEU B 506 11.320 8.013 20.744 1.00 24.19 ATOM 3261 C LEU B 506 12.515 8.189 20.538 1.00 22.74 ATOM 3261 C LEU B 506 12.515 8.189 20.538 1.00 22.74 ATOM 3263 CG LEU B 506 8.871 7.129 17.827 1.00 23.79 ATOM 3264 CDI LEU B 506 8.871 7.129 17.827 1.00 23.79 ATOM 3266 C LEU B 506 8.871 7.129 17.827 1.00 23.79 ATOM 3267 CA LEU B 506 8.871 7.129 17.827 1.00 23.79 ATOM 3268 C LEU B 507 10.696 8.705 1.00 21.36 ATOM 3269 C LEU B 507 11.471 9.694 22.481 1.00 23.77 ATOM 3268 C LEU B 507 11.471 9.694 22.481 1.00 23.77 ATOM 3269 C LEU B 507 11.471 9.694 22.481 1.00 23.77 ATOM 3267 CA LEU B 507 11.471 9.694 22.481 1.00 23.77 ATOM 3268 C LEU B 507 10.696 8.705 21.701 1.00 23.77 ATOM 3270 CB LEU B 507 10.696 8.705 21.701 1.00 21.63 ATOM 3271 CG LEU B 507 10.696 8.705 21.394 1.00 23.77 ATOM 3272 CD1 LEU B 507 10.372 12.222 21.097 1.00 31.99 ATOM 3273 CD2 LEU B 507 10.515 10.633 23.23 1.00 29.77 ATOM 3273 CD2 LEU B 507 10.372 12.222 21.097 1.00 31.99 ATOM 3274 N MET B 508 11.491 9.548 23.406 1.00 23.77 ATOM 3273 CD2 LEU B 507 10.372 12.022 21.097 1.00 31.99 ATOM 3274 N MET B 508 11.491 9.548 23.406 1.00 29.99 ATOM 3275 C MET B 508 11.491 9.548 23.206 1.00 29.97 ATOM 3280 C D LEU B 507 10.372 12.022 21.097 1.00 31.99 ATOM 3281 C E MET B 508 11.841 6.133 26.601 1.00 29.99 ATOM 3282 N LEU B 509 14.638 4.173 20.309 1.00 29.99 ATOM 3283 C C LEU B 509 15.424 6.282 11.601 1.00 29.99 ATOM 3280 C RET B 508 11.841 6.305 22.264 0.10 0.0 27.74 ATOM 3280 C RET B 508 11.497 9.995 22.2640 1.00 27.74 ATOM 3280 C RET B						7.227			
ATOM 3250 N ASN B 505						8.379			1.00 23.81
ATOM 3251 CA ASN B 505 9.259 4.578 22.525 1.00 22.525 ATOM 3253 C ASN B 505 11.424 5.219 21.611 1.00 23.21 ATOM 3253 C ASN B 505 11.424 5.219 21.611 1.00 23.21 ATOM 3255 CG ASN B 505 8.675 3.365 21.765 1.00 26.772 ATOM 3255 CG ASN B 505 8.271 2.267 22.745 1.00 34.58 ATOM 3257 ND2 ASN B 505 8.957 1.971 23.718 1.00 34.58 ATOM 3257 ND2 ASN B 505 7.152 1.635 22.496 1.00 33.99 ATOM 3258 N LEU B 506 9.602 6.259 20.763 1.00 21.31 ATOM 3250 C LEU B 506 10.482 7.053 19.905 1.00 22.31 ATOM 3260 C LEU B 506 11.320 8.013 20.744 1.00 24.23 ATOM 3261 O LEU B 506 11.320 8.013 20.744 1.00 24.23 ATOM 3263 CG LEU B 506 9.658 7.870 18.898 1.00 23.77 ATOM 3263 CG LEU B 506 9.658 7.870 18.898 1.00 23.77 ATOM 3265 CD LEU B 506 8.068 8.166 17.036 1.00 33.29 ATOM 3265 CD LEU B 506 8.068 8.166 17.036 1.00 33.24 ATOM 3267 CA LEU B 506 8.068 8.166 17.036 1.00 29.50 ATOM 3267 CA LEU B 507 10.695 8.705 21.701 1.00 21.63 ATOM 3267 CA LEU B 507 11.471 9.694 22.481 1.00 22.37 ATOM 3268 C LEU B 507 11.471 9.694 22.481 1.00 23.77 ATOM 3269 C LEU B 507 11.471 9.694 22.481 1.00 23.77 ATOM 3269 C LEU B 507 11.471 9.694 22.481 1.00 23.77 ATOM 3270 CB LEU B 507 10.695 8.705 21.701 1.00 31.94 ATOM 3271 CG LEU B 507 10.515 10.633 23.23 1.00 29.77 ATOM 3271 CG LEU B 507 10.515 10.633 23.23 1.00 29.77 ATOM 3272 CD1 LEU B 507 10.515 10.633 23.23 1.00 29.77 ATOM 3273 CD2 LEU B 507 10.372 12.022 21.097 1.00 31.98 ATOM 3274 N MET B 508 11.494 390 6.726 2.384 1.00 23.78 ATOM 3273 CD2 LEU B 507 10.372 12.022 21.097 1.00 31.98 ATOM 3273 CD2 LEU B 507 10.372 12.022 21.097 1.00 31.99 ATOM 3273 CD LEU B 509 14.395 6.477 22.553 1.00 29.97 ATOM 3273 CD LEU B 507 10.372 12.022 21.097 1.00 31.99 ATOM 3273 CD LEU B 507 10.372 12.022 21.097 1.00 31.99 ATOM 3273 CD LEU B 507 10.372 12.022 21.097 1.00 31.99 ATOM 3273 CD LEU B 507 10.372 12.022 21.097 1.00 31.99 ATOM 3280 CD LEU B 509 14.305 6.477 22.553 1.00 29.99 ATOM 3280 CD LEU B 509 14.305 6.477 22.553 1.00 29.99 ATOM 3280 CD LEU B 509 14.305 6.477 22.553 1.00 29.99 ATOM 3280 CD LEU B 509 14.974 5.669 20.307 1.00 32.		3249		ALA B	504	6.533	6.501	25.488	
ATOM 3253 O ASN B 505									
ATOM 3255 CG ASN B 505 8.675 3.365 21.765 1.00 26.72 ATOM 3256 OD1 ASN B 505 8.271 2.267 22.745 1.00 34.58 ATOM 3257 ND2 ASN B 505 7.152 1.635 22.746 1.00 34.58 ATOM 3258 N LEU B 506 9.602 6.259 20.763 1.00 21.36 ATOM 3259 CA LEU B 506 10.482 7.053 19.905 1.00 22.13 ATOM 3260 C LEU B 506 11.320 8.013 20.744 1.00 24.19 ATOM 3261 C LEU B 506 12.515 8.189 20.538 1.00 23.77 ATOM 3262 CB LEU B 506 12.515 8.189 20.538 1.00 23.77 ATOM 3263 CG LEU B 506 8.871 7.129 17.827 1.00 29.50 ATOM 3264 CD1 LEU B 506 8.791 6.332 16.912 1.00 33.79 ATOM 3265 CD2 LEU B 506 8.068 8.166 17.036 1.00 33.79 ATOM 3266 C LEU B 506 9.791 6.332 16.912 1.00 33.77 ATOM 3267 CA LEU B 507 10.696 8.705 21.701 1.00 23.77 ATOM 3268 C LEU B 507 10.696 8.705 21.701 1.00 23.77 ATOM 3269 O LEU B 507 10.596 8.705 21.701 1.00 23.77 ATOM 3269 O LEU B 507 10.596 8.705 21.701 1.00 23.77 ATOM 3270 CB LEU B 507 10.596 8.705 21.701 1.00 23.77 ATOM 3271 CG LEU B 507 10.515 10.633 23.232 1.00 29.72 ATOM 3272 CD1 LEU B 507 10.515 10.633 23.232 1.00 29.72 ATOM 3273 CD2 LEU B 507 10.515 10.633 23.232 1.00 29.72 ATOM 3273 CD2 LEU B 507 10.372 12.2233 1.00 29.72 ATOM 3273 CD2 LEU B 507 10.372 12.022 21.097 1.00 23.77 ATOM 3270 C B LEU B 507 10.372 12.022 21.097 1.00 29.97 ATOM 3271 CG LEU B 507 10.515 10.633 23.232 1.00 29.72 ATOM 3272 CD1 LEU B 507 10.372 12.022 21.097 1.00 29.97 ATOM 3273 CD2 LEU B 507 10.372 12.022 21.097 1.00 29.95 ATOM 3274 N MET B 508 13.132 7.080 24.650 1.00 29.97 ATOM 3275 CA MET B 508 13.132 7.080 24.650 1.00 29.97 ATOM 3276 C MET B 508 13.132 7.080 24.650 1.00 29.98 ATOM 3277 O MET B 508 15.492 6.803 24.405 1.00 29.99 ATOM 3280 N MET B 508 11.471 9.582 22.255 1.00 27.99 ATOM 3281 CE MET B 508 11.484 4.560 27.450 1.00 29.98 ATOM 3282 N LEU B 509 14.305 6.477 22.553 1.00 27.99 ATOM 3283 CA LEU B 509 15.424 6.228 21.679 1.00 29.98 ATOM 3280 CD LEU B 509 15.424 6.228 21.679 1.00 29.98 ATOM 3281 CE MET B 508 11.848 4.560 27.450 1.00 29.98 ATOM 3282 CD LEU B 509 15.584 4.99 917 22.631 1.00 27.74 ATOM 3290 C LEU B 510 15.584 9.917 22.253 1.00 27.5		3252				10.180	5.384	21.611	1.00 23.21
ATOM 3255 CG ASN B 505 8.271 2.267 22.745 1.00 34.58 ATOM 3257 ND2 ASN B 505 8.957 1.971 23.718 1.00 33.99 ATOM 3258 N LEU B 506 9.602 6.259 20.763 1.00 21.36 ATOM 3258 N LEU B 506 10.482 7.053 19.905 1.00 22.31 ATOM 3260 C LEU B 506 11.320 8.013 20.744 1.00 24.19 ATOM 3261 O LEU B 506 11.320 8.013 20.744 1.00 24.19 ATOM 3261 O LEU B 506 12.515 8.189 20.538 1.00 23.77 ATOM 3263 CG LEU B 506 8.871 7.129 17.827 1.00 29.50 ATOM 3263 CG LEU B 506 8.871 7.129 17.827 1.00 29.50 ATOM 3263 CG LEU B 506 8.871 7.129 17.827 1.00 29.50 ATOM 3265 CD2 LEU B 506 9.658 7.870 18.898 1.00 22.24 ATOM 3265 CD2 LEU B 506 9.791 6.332 16.912 1.00 33.79 ATOM 3266 N LEU B 507 10.696 8.705 21.701 1.00 21.63 ATOM 3266 N LEU B 507 10.696 8.705 21.701 1.00 21.63 ATOM 3268 C LEU B 507 11.471 9.694 22.481 1.00 23.77 ATOM 3268 C LEU B 507 11.471 9.694 22.481 1.00 23.77 ATOM 3270 CB LEU B 507 10.515 10.633 23.23 23.23 1.00 27.26 ATOM 3271 CG LEU B 507 10.515 10.633 23.23 23.23 1.00 27.26 ATOM 3272 CD1 LEU B 507 10.515 10.633 23.23 23.23 1.00 27.26 ATOM 3272 CD1 LEU B 507 10.515 10.633 23.23 23.23 1.00 27.26 ATOM 3272 CD1 LEU B 507 10.515 10.633 23.23 23.23 1.00 27.26 ATOM 3272 CD1 LEU B 507 10.372 12.022 21.097 1.00 31.99 ATOM 3273 CD2 LEU B 507 10.372 12.022 21.097 1.00 31.99 ATOM 3273 CD2 LEU B 507 10.372 12.022 21.097 1.00 31.99 ATOM 3273 CD2 LEU B 507 8.764 12.382 22.956 1.00 29.27 ATOM 3273 CD2 LEU B 507 8.764 12.382 22.956 1.00 29.27 ATOM 3273 CD2 LEU B 507 8.764 12.382 22.956 1.00 29.95 ATOM 3273 CD2 LEU B 507 8.764 12.382 22.956 1.00 29.95 ATOM 3273 CD2 LEU B 507 8.764 12.382 22.956 1.00 29.95 ATOM 3273 CD2 LEU B 507 8.764 12.382 22.956 1.00 29.95 ATOM 3273 CD2 LEU B 507 8.764 12.382 22.956 1.00 29.95 ATOM 3273 CD2 LEU B 507 8.764 12.382 22.956 1.00 29.95 ATOM 3273 CD2 LEU B 508 11.844 6.133 26.601 1.00 26.91 ATOM 3275 CA MET B 508 11.846 4.560 21.00 24.650 1.00 26.91 ATOM 3275 CA MET B 508 11.846 4.560 21.00 24.650 1.00 26.91 ATOM 3283 CD LEU B 509 14.494 4.394 6.228 21.679 1.00 29.95 ATOM 3283 CD LEU B 509 14.494 4.394 6.228 21.679 1									
ATOM 3259 ND LSUB 506	ATOM	3255	CG	ASN B	505	8.271	2.267	22.745	1.00 34.58
ATOM 3258 N LEU B 506 9.602 6.259 20.763 1.00 21.36 ATOM 3259 CA LEU B 506 11.320 8.013 20.744 1.00 24.19 ATOM 3261 C LEU B 506 12.515 8.189 20.538 1.00 23.77 ATOM 3262 CB LEU B 506 8.868 7.870 18.898 1.00 22.24 ATOM 3263 CG LEU B 506 8.868 7.870 18.898 1.00 22.24 ATOM 3263 CG LEU B 506 8.068 8.166 17.036 1.00 33.79 ATOM 3265 CD2 LEU B 506 9.658 7.870 18.898 1.00 22.24 ATOM 3265 CD2 LEU B 506 8.068 8.166 17.036 1.00 33.79 ATOM 3266 N LEU B 507 10.696 8.705 21.701 1.00 33.24 ATOM 3267 CA LEU B 507 11.471 9.694 22.481 1.00 25.03 ATOM 3268 C LEU B 507 12.444 8.987 23.394 1.00 23.77 ATOM 3269 O LEU B 507 12.444 8.987 23.394 1.00 23.77 ATOM 3270 CB LEU B 507 10.515 10.633 23.232 1.00 27.26 ATOM 3271 CG LEU B 507 10.515 10.633 23.232 1.00 27.26 ATOM 3272 CD1 LEU B 507 8.764 12.382 22.956 1.00 29.27 ATOM 3273 CD2 LEU B 507 10.372 12.022 21.097 1.00 31.99 ATOM 3273 CD2 LEU B 507 10.372 12.022 21.097 1.00 32.967 ATOM 3273 CD2 LEU B 507 10.372 12.022 21.097 1.00 23.78 ATOM 3273 CD2 LEU B 507 10.372 12.022 21.097 1.00 32.967 ATOM 3273 CD2 LEU B 507 10.372 12.022 21.097 1.00 29.27 ATOM 3273 CD2 LEU B 507 10.372 12.022 21.097 1.00 29.27 ATOM 3273 CD2 LEU B 507 10.372 12.022 21.097 1.00 29.84 ATOM 3273 CD2 LEU B 508 13.132 7.080 24.650 1.00 23.78 ATOM 3273 CD2 LEU B 508 13.132 7.080 24.650 1.00 23.78 ATOM 3273 CD2 LEU B 508 13.132 7.080 24.650 1.00 23.78 ATOM 3278 CB MET B 508 13.132 7.080 24.650 1.00 23.78 ATOM 3278 CB MET B 508 13.132 7.080 24.650 1.00 23.78 ATOM 3278 CB MET B 508 13.132 7.080 24.650 1.00 23.78 ATOM 3280 CD MET B 508 11.441 6.133 26.601 1.00 30.84 ATOM 3280 CB MET B 508 11.468 4.560 27.450 1.00 29.95 ATOM 3281 CB MET B 508 11.441 6.133 26.601 1.00 29.95 ATOM 3281 CB MET B 508 11.441 6.133 26.601 1.00 30.84 ATOM 3280 CB LEU B 509 16.285 7.458 21.470 1.00 30.52 ATOM 3280 CB LEU B 509 16.285 7.458 21.470 1.00 30.52 ATOM 3280 CB LEU B 509 16.285 7.458 21.470 1.00 30.52 ATOM 3280 CB LEU B 509 16.285 7.458 21.470 1.00 30.55 ATOM 3299 CA LEU B 509 14.974 5.669 20.307 1.00 32.48 ATOM 3299 CA LEU B 510 15.669 14.77									
ATOM 3260 C LEU B 506 11.320 8.013 20.744 1.00 24.19 ATOM 3261 O LEU B 506 9.658 7.870 18.898 1.00 23.77 ATOM 3262 CB LEU B 506 9.658 7.870 18.898 1.00 22.24 ATOM 3263 CG LEU B 506 8.8166 17.036 1.00 33.79 ATOM 3265 CD1 LEU B 506 8.8068 8.166 17.036 1.00 33.79 ATOM 3265 CD2 LEU B 506 9.791 6.332 16.912 1.00 33.24 ATOM 3266 N LEU B 507 10.696 8.705 21.701 1.00 21.63 ATOM 3267 CA LEU B 507 11.471 9.694 22.481 1.00 25.03 ATOM 3268 C LEU B 507 12.444 8.987 23.394 1.00 23.77 ATOM 3269 O LEU B 507 12.444 8.987 23.394 1.00 23.77 ATOM 3270 CB LEU B 507 10.515 10.633 23.232 1.00 27.26 ATOM 3271 CG LEU B 507 9.592 11.371 22.233 1.00 29.67 ATOM 3272 CD1 LEU B 507 8.764 12.382 22.956 1.00 29.27 ATOM 3273 CD2 LEU B 507 8.764 12.382 22.956 1.00 29.27 ATOM 3273 CD2 LEU B 507 10.372 12.022 21.097 1.00 31.99 ATOM 3275 CA MET B 508 12.112 7.773 23.844 1.00 20.83 ATOM 3277 C MET B 508 12.112 7.773 23.844 1.00 20.83 ATOM 3277 C MET B 508 12.112 7.773 23.844 1.00 20.83 ATOM 3279 CG MET B 508 12.512 7.080 24.650 1.00 23.78 ATOM 3279 CG MET B 508 15.571 5.805 25.289 1.00 29.99 ATOM 3279 CG MET B 508 15.571 5.805 25.289 1.00 29.99 ATOM 3279 CG MET B 508 11.841 6.133 26.601 1.00 28.80 ATOM 3280 CD MET B 508 11.841 6.133 26.601 1.00 29.99 ATOM 3281 CE MET B 508 11.841 6.133 26.601 1.00 29.95 ATOM 3282 C LEU B 509 14.305 6.477 22.553 1.00 29.99 ATOM 3283 CA LEU B 509 14.468 4.560 27.450 1.00 29.95 ATOM 3284 C LEU B 509 14.305 6.477 22.553 1.00 27.99 ATOM 3283 CA LEU B 509 14.468 4.560 27.450 1.00 29.95 ATOM 3284 C LEU B 509 14.584 9.917 21.631 1.00 30.52 ATOM 3289 C LEU B 509 14.584 9.917 21.631 1.00 30.751 ATOM 3290 C LEU B 509 14.584 9.917 22.631 1.00 27.74 ATOM 3280 CB LEU B 509 12.428 21.679 21.00 30.751 ATOM 3290 C LEU B 500 15.836 8.808 21.726 1.00 29.95 ATOM 3291 CA LEU B 509 12.551 1.00 29.95 ATOM 3292 C LEU B 500 15.638 4.003 20.90 1.00 33.771 ATOM 3292 C LEU B 500 15.638 4.003 20.90 1.00 33.771 ATOM 3290 C LEU B 500 15.503 1.00 20.555 ATOM 3290 C SER B 511 18.540 9.158 24.650 24.528 1.00 27.78	ATOM	3258	N	LEU B	506	9.602	6.259	20.763	1.00 21.36
ATOM 3261 O LEU B 506 12.515 8.189 20.538 1.00 23.77 ATOM 3263 CG LEU B 506 8.871 7.129 17.827 1.00 29.50 ATOM 3264 CD1 LEU B 506 8.068 8.166 17.036 1.00 33.79 ATOM 3265 CD2 LEU B 506 8.068 8.166 17.036 1.00 33.79 ATOM 3265 CD2 LEU B 507 10.696 8.705 21.701 1.00 21.63 ATOM 3266 N LEU B 507 11.471 9.694 22.481 1.00 23.77 ATOM 3268 C LEU B 507 11.471 9.694 22.481 1.00 23.77 ATOM 3269 O LEU B 507 12.444 8.987 23.394 1.00 23.77 ATOM 3269 O LEU B 507 10.515 10.633 23.232 10.00 27.26 ATOM 3271 CG LEU B 507 10.515 10.633 23.232 10.00 27.26 ATOM 3272 CD1 LEU B 507 9.592 11.371 22.233 1.00 27.26 ATOM 3273 CD2 LEU B 507 9.592 11.371 22.233 1.00 29.67 ATOM 3273 CD2 LEU B 507 9.592 11.371 22.233 1.00 29.67 ATOM 3273 CD2 LEU B 507 10.372 12.022 21.097 1.00 31.99 ATOM 3274 N MET B 508 12.112 7.773 23.844 1.00 20.33 ATOM 3275 CA MET B 508 12.112 7.773 23.844 1.00 20.33 ATOM 3275 CA MET B 508 12.112 7.773 23.844 1.00 20.33 ATOM 3277 C MET B 508 13.132 7.080 24.405 1.00 29.09 ATOM 3278 CB MET B 508 12.517 5.805 25.289 1.00 26.91 ATOM 3279 CG MET B 508 12.517 5.805 25.289 1.00 26.91 ATOM 3280 N MET B 508 11.841 6.133 26.601 1.00 29.95 ATOM 3283 CA LEU B 509 14.305 6.477 22.553 1.00 29.95 ATOM 3283 CA LEU B 509 14.305 6.477 22.553 1.00 29.96 ATOM 3283 CA LEU B 509 14.305 6.477 22.553 1.00 29.99 ATOM 3283 CA LEU B 509 14.4305 6.477 22.553 1.00 27.74 ATOM 3283 CA LEU B 509 14.4305 6.477 22.553 1.00 27.99 ATOM 3283 CA LEU B 509 14.4305 6.477 22.553 1.00 27.99 ATOM 3284 C LEU B 509 14.4305 6.477 22.553 1.00 27.99 ATOM 3283 CA LEU B 509 14.638 4.173 20.309 1.00 32.48 ATOM 3289 CD LEU B 509 14.638 4.173 20.309 1.00 32.48 ATOM 3280 CD LEU B 509 14.4974 5.669 20.307 1.00 32.48 ATOM 3280 CD LEU B 509 14.638 4.173 20.309 1.00 32.48 ATOM 3299 CG LEU B 509 14.638 4.173 20.309 1.00 32.48 ATOM 3299 CG LEU B 509 14.638 4.173 20.309 1.00 32.48 ATOM 3299 CG LEU B 509 14.638 4.173 20.309 1.00 32.48 ATOM 3299 CG LEU B 510 15.679 11.127 21.928 1.00 37.78 ATOM 3299 CG LEU B 510 15.679 11.127 21.928 1.00 25.55 ATOM 3299 CA SER B 511 18.540 9.158 24.52									
ATOM 3264 CD1 LEU B 506			0			12.515	8.189	20.538	1.00 23.77
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ATOM 3266 N LEU B 507 10.696 8.705 21.701 1.00 21.63 ATOM 3267 CA LEU B 507 11.471 9.694 22.481 1.00 25.03 ATOM 3268 C LEU B 507 12.444 8.987 23.394 1.00 23.77 ATOM 3269 O LEU B 507 12.444 8.987 23.394 1.00 23.77 ATOM 3269 O LEU B 507 10.515 10.633 23.706 1.00 26.25 ATOM 3271 CG LEU B 507 9.592 11.371 22.233 1.00 29.67 ATOM 3272 CD1 LEU B 507 8.764 12.382 22.956 1.00 29.27 ATOM 3273 CD2 LEU B 507 8.764 12.382 22.956 1.00 29.27 ATOM 3273 CD2 LEU B 507 8.764 12.382 22.956 1.00 29.27 ATOM 3273 CD2 LEU B 508 12.112 7.773 23.844 1.00 20.83 ATOM 3275 CA MET B 508 12.112 7.773 23.844 1.00 29.09 ATOM 3277 O MET B 508 14.390 6.726 23.848 1.00 29.09 ATOM 3277 O MET B 508 14.390 6.726 23.848 1.00 29.09 ATOM 3277 O MET B 508 12.571 5.805 25.29 1.00 26.91 ATOM 3278 CB MET B 508 12.571 5.805 25.29 1.00 26.91 ATOM 3280 SD MET B 508 11.841 6.133 26.601 1.00 20.83 ATOM 3280 SD MET B 508 11.468 4.560 27.450 1.00 29.95 ATOM 3281 CE MET B 508 10.343 3.845 26.243 1.00 29.95 ATOM 3281 CE MET B 509 14.305 6.477 22.553 1.00 29.95 ATOM 3284 C LEU B 509 14.305 6.477 22.553 1.00 29.96 ATOM 3284 C LEU B 509 14.305 6.477 22.553 1.00 29.96 ATOM 3284 C LEU B 509 14.305 6.477 22.553 1.00 29.96 ATOM 3288 CD LEU B 509 14.305 6.477 22.553 1.00 27.99 ATOM 3288 CD LEU B 509 14.405 6.285 7.458 21.460 1.00 30.52 ATOM 3286 CB LEU B 509 14.4974 5.669 20.307 1.00 32.84 ATOM 3287 CG LEU B 509 14.4974 5.669 20.307 1.00 32.88 ATOM 3289 CD LEU B 509 14.129 3.823 18.931 1.00 37.74 ATOM 3289 CD LEU B 509 14.129 3.823 18.931 1.00 37.74 ATOM 3290 N LEU B 510 15.836 8.680 21.726 1.00 29.83 ATOM 3291 CA LEU B 510 15.836 8.680 21.726 1.00 29.83 ATOM 3292 C LEU B 510 15.679 11.127 21.928 1.00 37.31 ATOM 3293 CA LEU B 510 15.679 11.127 21.928 1.00 37.31 ATOM 3294 CB LEU B 510 15.679 11.127 21.928 1.00 37.31 ATOM 3295 CG LEU B 510 15.679 11.127 21.928 1.00 25.53 ATOM 3299 CA SER B 511 18.540 9.158 24.767 1.00 25.55 ATOM 3301 O SER B 511 18.540 9.158 24.562 4.528 1.00 25.55 ATOM 3301 O SER B 511 18.540 9.158 24.562 4.528 1.00 25.55 ATOM 3301 O SER B 511 19.264 8.432						8.068	8.166		
ATOM 3268 C LEU B 507 12.444 8.987 23.394 1.00 23.77 ATOM 3269 O LEU B 507 10.515 10.633 23.232 1.00 27.26 ATOM 3271 CG LEU B 507 10.515 10.633 23.232 1.00 27.26 ATOM 3271 CG LEU B 507 9.592 11.371 22.233 1.00 29.67 ATOM 3272 CD1 LEU B 507 8.764 12.382 22.956 1.00 29.27 ATOM 3273 CD2 LEU B 507 10.372 12.022 21.097 1.00 31.99 ATOM 3274 N MET B 508 12.112 7.773 23.844 1.00 20.83 ATOM 3275 CA MET B 508 13.132 7.080 24.650 1.00 23.78 ATOM 3277 O MET B 508 14.390 6.726 23.848 1.00 29.09 ATOM 3277 O MET B 508 15.492 6.803 24.405 1.00 28.80 ATOM 3278 CB MET B 508 11.571 5.805 25.289 1.00 26.91 ATOM 3279 CG MET B 508 11.841 6.133 26.601 1.00 30.84 ATOM 3280 SD MET B 508 11.468 4.560 27.450 1.00 29.95 ATOM 3281 CE MET B 508 11.468 4.560 27.450 1.00 29.84 ATOM 3282 N LEU B 509 14.305 6.477 22.553 1.00 29.96 ATOM 3283 CA LEU B 509 14.305 6.477 22.553 1.00 29.96 ATOM 3283 CA LEU B 509 14.305 6.477 22.553 1.00 29.96 ATOM 3285 C LEU B 509 14.305 6.477 22.553 1.00 29.96 ATOM 3283 CA LEU B 509 14.305 6.477 22.553 1.00 29.96 ATOM 3285 C LEU B 509 14.305 6.477 22.553 1.00 27.99 ATOM 3283 CA LEU B 509 14.305 6.477 22.553 1.00 27.99 ATOM 3285 C LEU B 509 14.305 6.477 22.553 1.00 27.99 ATOM 3285 C LEU B 509 14.305 6.477 22.553 1.00 27.99 ATOM 3285 C LEU B 509 14.305 6.477 22.553 1.00 27.99 ATOM 3285 C LEU B 509 14.305 6.477 22.553 1.00 27.99 ATOM 3285 C LEU B 509 14.305 6.477 22.553 1.00 27.99 ATOM 3286 CB LEU B 509 14.305 6.477 22.553 1.00 27.74 ATOM 3286 CB LEU B 509 14.974 5.669 20.307 1.00 33.77 ATOM 3295 C LEU B 509 14.129 3.823 18.931 1.00 34.29 ATOM 3295 C LEU B 509 14.129 3.823 18.931 1.00 37.61 ATOM 3296 CD LEU B 510 15.679 11.127 21.928 1.00 37.31 ATOM 3295 CG LEU B 510 15.679 11.127 21.928 1.00 37.31 ATOM 3294 CB LEU B 510 15.679 11.127 21.928 1.00 37.31 ATOM 3295 CG LEU B 510 15.679 11.127 21.928 1.00 37.31 ATOM 3295 CG LEU B 510 15.336 12.812 20.015 1.00 39.00 ATOM 3298 N SER B 511 18.540 9.158 24.767 1.00 22.45 ATOM 3300 C SER B 511 19.689 8.297 24.204 1.00 16.69 ATOM 3301 O SER B 511 19.689 8.297 54.204 1.00 16.69 AT									
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ATOM 3272 CD1 LEU B 507 10.372 12.022 21.956 1.00 29.27 ATOM 3273 CD2 LEU B 507 10.372 12.022 21.097 1.00 31.99 ATOM 3274 N MET B 508 12.112 7.773 23.844 1.00 20.83 ATOM 3275 CA MET B 508 13.132 7.080 24.650 1.00 23.78 ATOM 3276 C MET B 508 14.390 6.726 23.848 1.00 29.09 ATOM 3277 O MET B 508 15.492 6.803 24.405 1.00 28.80 ATOM 3277 CG MET B 508 12.571 5.805 25.289 1.00 26.91 ATOM 3279 CG MET B 508 11.841 6.133 26.601 1.00 30.84 ATOM 3280 SD MET B 508 11.468 4.560 27.450 1.00 29.95 ATOM 3281 CE MET B 508 11.468 4.560 27.450 1.00 29.95 ATOM 3281 CE MET B 508 10.343 3.845 26.243 1.00 29.84 ATOM 3282 N LEU B 509 14.305 6.477 22.553 1.00 27.99 ATOM 3283 CA LEU B 509 16.285 7.458 21.470 1.00 30.52 ATOM 3285 C LEU B 509 16.285 7.458 21.470 1.00 30.52 ATOM 3286 CB LEU B 509 14.974 5.669 20.307 1.00 32.48 ATOM 3287 CG LEU B 509 14.638 4.173 20.309 1.00 33.77 ATOM 3288 CD1 LEU B 509 14.638 4.173 20.309 1.00 33.77 ATOM 3289 CD2 LEU B 509 14.638 4.173 20.309 1.00 33.77 ATOM 3290 CD LEU B 510 15.836 8.680 21.726 1.00 29.83 ATOM 3291 CA LEU B 510 15.836 8.680 21.726 1.00 29.83 ATOM 3292 C LEU B 510 15.836 8.680 21.726 1.00 29.83 ATOM 3292 C LEU B 510 15.836 8.680 21.726 1.00 27.70 ATOM 3294 CB LEU B 510 15.836 8.680 21.726 1.00 27.70 ATOM 3293 CG LEU B 510 15.836 8.680 21.726 1.00 27.70 ATOM 3294 CB LEU B 510 15.836 8.680 21.726 1.00 27.70 ATOM 3293 C LEU B 510 15.836 8.680 21.726 1.00 27.70 ATOM 3294 CB LEU B 510 15.836 8.680 21.726 1.00 27.70 ATOM 3293 C LEU B 510 15.836 8.680 21.726 1.00 25.15 ATOM 3297 CD2 LEU B 510 15.836 8.680 21.726 1.00 25.55 ATOM 3299 CA SER B 511 18.540 9.151 22.512 21.714 1.00 47.22 ATOM 3297 CD2 LEU B 510 15.336 12.812 20.015 1.00 39.00 ATOM 3298 N SER B 511 18.540 9.152 23.788 1.00 22.455 ATOM 3300 C SER B 511 18.540 9.152 23.788 1.00 25.55 ATOM 3301 O SER B 511 18.540 9.152 23.785 1.00 25.55 ATOM 3303 OG SER B 511 18.218 8.283 25.975 1.00 25.55 ATOM 3303 OG SER B 511 19.689 8.297 24.204 1.00 16.69 ATOM 3303 OG SER B 511 19.264 8.432 26.827 1.00 37.78									
ATOM 3274 N MET B 508 12.112 7.773 23.844 1.00 20.83 ATOM 3275 CA MET B 508 13.132 7.080 24.650 1.00 23.78 ATOM 3276 C MET B 508 14.390 6.726 23.848 1.00 29.09 ATOM 3277 O MET B 508 15.492 6.803 24.405 1.00 28.80 ATOM 3278 CB MET B 508 12.571 5.805 25.289 1.00 26.91 ATOM 3279 CG MET B 508 11.841 6.133 26.601 1.00 30.84 ATOM 3280 SD MET B 508 11.841 6.133 26.601 1.00 29.95 ATOM 3281 CE MET B 508 11.468 4.560 27.450 1.00 29.95 ATOM 3281 CE MET B 508 10.343 3.845 26.243 1.00 29.95 ATOM 3282 N LEU B 509 14.305 6.477 22.553 1.00 27.99 ATOM 3283 CA LEU B 509 15.424 6.228 21.679 1.00 29.96 ATOM 3284 C LEU B 509 16.225 7.458 21.470 1.00 30.52 ATOM 3285 O LEU B 509 17.483 7.306 21.166 1.00 27.74 ATOM 3286 CB LEU B 509 14.638 4.173 20.309 1.00 32.48 ATOM 3287 CG LEU B 509 14.638 4.173 20.309 1.00 33.77 ATOM 3288 CD1 LEU B 509 14.638 4.173 20.309 1.00 37.61 ATOM 3290 N LEU B 510 15.854 3.403 20.830 1.00 37.61 ATOM 3290 N LEU B 510 15.836 8.680 21.726 1.00 26.40 ATOM 3293 O LEU B 510 15.836 8.680 21.726 1.00 29.83 ATOM 3293 C LEU B 510 15.836 8.680 21.726 1.00 26.40 ATOM 3293 C LEU B 510 15.836 8.680 21.726 1.00 27.70 ATOM 3293 C LEU B 510 18.780 10.574 22.463 1.00 27.70 ATOM 3293 C LEU B 510 15.679 11.127 21.928 1.00 37.31 ATOM 3295 CG LEU B 510 15.336 12.812 20.015 1.00 39.00 ATOM 3295 CG LEU B 510 15.336 12.812 20.015 1.00 39.00 ATOM 3299 CA SER B 511 17.483 9.251 23.788 1.00 25.53 ATOM 3299 CA SER B 511 17.483 9.251 23.788 1.00 25.53 ATOM 3299 CA SER B 511 19.689 8.297 24.204 1.00 16.69 ATOM 3300 C SER B 511 19.689 8.297 24.204 1.00 16.69 ATOM 3301 O SER B 511 18.540 9.158 24.767 1.00 22.45 ATOM 3301 O SER B 511 18.540 9.158 24.5767 1.00 25.55 ATOM 3303 OG SER B 511 19.264 8.432 26.827 1.00 37.78	ATOM	3272	CD1	LEU B	507	8.764	12.382	22.956	1.00 29.27
ATOM 3275 CA MET B 508 14.390 6.726 23.848 1.00 29.09 ATOM 3277 O MET B 508 14.390 6.726 23.848 1.00 29.09 ATOM 3277 O MET B 508 15.492 6.803 24.405 1.00 28.80 ATOM 3278 CB MET B 508 12.571 5.805 25.289 1.00 26.91 ATOM 3279 CG MET B 508 11.841 6.133 26.601 1.00 30.84 ATOM 3280 SD MET B 508 11.841 6.133 26.601 1.00 29.95 ATOM 3281 CE MET B 508 11.468 4.560 27.450 1.00 29.95 ATOM 3282 N LEU B 509 14.305 6.477 22.553 1.00 27.99 ATOM 3283 CA LEU B 509 15.424 6.228 21.679 1.00 29.96 ATOM 3284 C LEU B 509 15.424 6.228 21.679 1.00 29.96 ATOM 3285 O LEU B 509 16.285 7.458 21.470 1.00 30.52 ATOM 3286 CB LEU B 509 14.974 5.669 20.307 1.00 32.48 ATOM 3287 CG LEU B 509 14.638 4.173 20.309 1.00 33.77 ATOM 3288 CD1 LEU B 509 14.638 4.173 20.309 1.00 33.761 ATOM 3290 N LEU B 509 14.129 3.823 18.931 1.00 27.70 ATOM 3290 N LEU B 510 15.854 3.403 20.830 1.00 37.61 ATOM 3291 CA LEU B 510 15.854 9.917 21.631 1.00 29.83 ATOM 3292 C LEU B 510 16.544 9.917 21.631 1.00 29.83 ATOM 3293 O LEU B 510 15.679 11.127 21.928 1.00 37.31 ATOM 3294 CB LEU B 510 15.336 12.812 20.015 1.00 25.15 ATOM 3297 CD2 LEU B 510 15.336 12.812 20.015 1.00 37.31 ATOM 3299 CG LEU B 510 15.336 12.812 20.015 1.00 37.31 ATOM 3299 CG LEU B 510 15.336 12.812 20.015 1.00 39.00 ATOM 3299 CA SER B 511 17.483 9.251 23.788 1.00 25.53 ATOM 3299 CA SER B 511 19.689 8.297 24.204 1.00 16.69 ATOM 3300 C SER B 511 18.540 9.158 24.767 1.00 25.55 ATOM 3301 O SER B 511 18.521 8.283 25.975 1.00 25.55 ATOM 3302 CB SER B 511 19.264 8.432 26.827 1.00 37.78									
ATOM 3278 CB MET B 508	ATOM	3275	CA	MET B	508	13.132	7.080		1.00 23.78
ATOM 3280 SD MET B 508 11.841 6.133 26.601 1.00 30.84 ATOM 3280 SD MET B 508 11.468 4.560 27.450 1.00 29.95 ATOM 3281 CE MET B 508 10.343 3.845 26.243 1.00 29.84 ATOM 3282 N LEU B 509 14.305 6.477 22.553 1.00 27.99 ATOM 3283 CA LEU B 509 15.424 6.228 21.679 1.00 29.96 ATOM 3284 C LEU B 509 16.285 7.458 21.470 1.00 30.52 ATOM 3285 O LEU B 509 17.483 7.306 21.166 1.00 27.74 ATOM 3286 CB LEU B 509 14.974 5.669 20.307 1.00 32.48 ATOM 3287 CG LEU B 509 14.638 4.173 20.309 1.00 33.77 ATOM 3288 CD1 LEU B 509 14.129 3.823 18.931 1.00 34.29 ATOM 3289 CD2 LEU B 509 15.854 3.403 20.830 1.00 37.61 ATOM 3290 N LEU B 510 15.836 8.680 21.726 1.00 26.40 ATOM 3291 CA LEU B 510 15.836 8.680 21.726 1.00 26.40 ATOM 3292 C LEU B 510 16.544 9.917 21.631 1.00 29.83 ATOM 3292 C LEU B 510 18.780 10.574 22.463 1.00 27.70 ATOM 3293 O LEU B 510 18.780 10.574 22.463 1.00 25.15 ATOM 3294 CB LEU B 510 15.679 11.127 21.928 1.00 37.31 ATOM 3295 CG LEU B 510 14.737 11.758 20.914 1.00 43.51 ATOM 3296 CD1 LEU B 510 15.336 12.812 20.015 1.00 39.00 ATOM 3299 CA SER B 511 18.540 9.158 24.767 1.00 22.45 ATOM 3299 CA SER B 511 18.540 9.158 24.767 1.00 25.53 ATOM 3299 CA SER B 511 18.540 9.158 24.767 1.00 22.45 ATOM 3300 C SER B 511 18.540 9.158 24.767 1.00 22.55 ATOM 3301 O SER B 511 18.121 8.283 25.975 1.00 25.55 ATOM 3303 OG SER B 511 18.121 8.283 25.975 1.00 25.55 ATOM 3303 OG SER B 511 19.264 8.432 26.827 1.00 37.78								24.405	
ATOM 3280 SD MET B 508									
ATOM 3282 N LEU B 509 14.305 6.477 22.553 1.00 27.99 ATOM 3283 CA LEU B 509 15.424 6.228 21.679 1.00 29.96 ATOM 3284 C LEU B 509 16.285 7.458 21.470 1.00 30.52 ATOM 3285 O LEU B 509 17.483 7.306 21.166 1.00 27.74 ATOM 3286 CB LEU B 509 14.974 5.669 20.307 1.00 32.48 ATOM 3287 CG LEU B 509 14.638 4.173 20.309 1.00 33.77 ATOM 3288 CD1 LEU B 509 14.129 3.823 18.931 1.00 34.29 ATOM 3289 CD2 LEU B 509 15.854 3.403 20.830 1.00 37.61 ATOM 3290 N LEU B 510 15.836 8.680 21.726 1.00 26.40 ATOM 3291 CA LEU B 510 16.544 9.917 21.631 1.00 29.83 ATOM 3292 C LEU B 510 16.544 9.917 21.631 1.00 27.70 ATOM 3293 O LEU B 510 18.780 10.574 22.463 1.00 27.70 ATOM 3293 C LEU B 510 18.780 10.574 22.463 1.00 27.70 ATOM 3294 CB LEU B 510 15.679 11.127 21.928 1.00 37.31 ATOM 3295 CG LEU B 510 15.679 11.127 21.928 1.00 37.31 ATOM 3296 CD1 LEU B 510 13.671 12.521 21.714 1.00 43.51 ATOM 3298 N SER B 510 15.336 12.812 20.015 1.00 39.00 ATOM 3298 N SER B 511 17.483 9.251 23.788 1.00 25.53 ATOM 3299 CA SER B 511 18.540 9.158 24.767 1.00 22.45 ATOM 3300 C SER B 511 19.689 8.297 24.204 1.00 25.55 ATOM 3301 O SER B 511 19.689 8.297 24.204 1.00 25.55 ATOM 3302 CB SER B 511 18.121 8.283 25.975 1.00 25.55 ATOM 3303 OG SER B 511 19.264 8.432 26.827 1.00 37.78									
ATOM 3283 CA LEU B 509									
ATOM 3285 O LEU B 509 17.483 7.306 21.166 1.00 27.74 ATOM 3286 CB LEU B 509 14.974 5.669 20.307 1.00 32.48 ATOM 3287 CG LEU B 509 14.638 4.173 20.309 1.00 33.77 ATOM 3288 CD1 LEU B 509 14.129 3.823 18.931 1.00 34.29 ATOM 3289 CD2 LEU B 509 15.854 3.403 20.830 1.00 37.61 ATOM 3290 N LEU B 510 15.836 8.680 21.726 1.00 26.40 ATOM 3291 CA LEU B 510 16.544 9.917 21.631 1.00 29.83 ATOM 3292 C LEU B 510 17.718 9.962 22.640 1.00 27.70 ATOM 3293 O LEU B 510 18.780 10.574 22.463 1.00 25.15 ATOM 3294 CB LEU B 510 18.780 10.574 22.463 1.00 25.15 ATOM 3295 CG LEU B 510 15.679 11.127 21.928 1.00 37.31 ATOM 3296 CD1 LEU B 510 14.737 11.758 20.914 1.00 43.51 ATOM 3297 CD2 LEU B 510 13.671 12.521 21.714 1.00 47.22 ATOM 3298 N SER B 511 17.483 9.251 23.788 1.00 25.53 ATOM 3299 CA SER B 511 18.540 9.155 24.767 1.00 22.45 ATOM 3300 C SER B 511 19.689 8.297 24.204 1.00 16.69 ATOM 3301 O SER B 511 18.121 8.283 25.975 1.00 25.55 ATOM 3302 CB SER B 511 18.121 8.283 25.975 1.00 25.55	ATOM	3283	CA	LEU B	509	15.424	6.228	21.679	1.00 29.96
ATOM 3286 CB LEU B 509 14.974 5.669 20.307 1.00 32.48 ATOM 3287 CG LEU B 509 14.638 4.173 20.309 1.00 33.77 ATOM 3288 CD1 LEU B 509 14.129 3.823 18.931 1.00 34.29 ATOM 3289 CD2 LEU B 509 15.854 3.403 20.830 1.00 37.61 ATOM 3290 N LEU B 510 15.836 8.680 21.726 1.00 26.40 ATOM 3291 CA LEU B 510 16.544 9.917 21.631 1.00 29.83 ATOM 3292 C LEU B 510 17.718 9.962 22.640 1.00 27.70 ATOM 3293 O LEU B 510 18.780 10.574 22.463 1.00 25.15 ATOM 3294 CB LEU B 510 18.780 10.574 22.463 1.00 25.15 ATOM 3295 CG LEU B 510 15.679 11.127 21.928 1.00 37.31 ATOM 3295 CG LEU B 510 14.737 11.758 20.914 1.00 43.51 ATOM 3296 CD1 LEU B 510 13.671 12.521 21.714 1.00 47.22 ATOM 3297 CD2 LEU B 510 13.671 12.521 21.714 1.00 47.22 ATOM 3298 N SER B 511 17.483 9.251 23.788 1.00 25.53 ATOM 3299 CA SER B 511 18.540 9.158 24.767 1.00 22.45 ATOM 3300 C SER B 511 18.540 9.158 24.767 1.00 22.45 ATOM 3301 O SER B 511 19.689 8.297 24.204 1.00 16.69 ATOM 3302 CB SER B 511 18.121 8.283 25.975 1.00 25.55 ATOM 3303 OG SER B 511 19.264 8.432 26.827 1.00 37.78									
ATOM 3288 CD1 LEU B 509 14.129 3.823 18.931 1.00 34.29 ATOM 3289 CD2 LEU B 509 15.854 3.403 20.830 1.00 37.61 ATOM 3290 N LEU B 510 15.836 8.680 21.726 1.00 26.40 ATOM 3291 CA LEU B 510 16.544 9.917 21.631 1.00 29.83 ATOM 3292 C LEU B 510 17.718 9.962 22.640 1.00 27.70 ATOM 3293 O LEU B 510 18.780 10.574 22.463 1.00 25.15 ATOM 3294 CB LEU B 510 15.679 11.127 21.928 1.00 37.31 ATOM 3295 CG LEU B 510 14.737 11.758 20.914 1.00 43.51 ATOM 3296 CD1 LEU B 510 13.671 12.521 21.714 1.00 47.22 ATOM 3297 CD2 LEU B 510 15.336 12.812 20.015 1.00 39.00 ATOM 3298 N SER B 511 17.483 9.251 23.788 1.00 25.53 ATOM 3299 CA SER B 511 18.540 9.158 24.767 1.00 25.53 ATOM 3300 C SER B 511 19.689 8.297 24.204 1.00 16.69 ATOM 3301 O SER B 511 19.689 8.297 24.204 1.00 16.69 ATOM 3302 CB SER B 511 18.121 8.283 25.975 1.00 25.55 ATOM 3303 OG SER B 511 19.264 8.432 26.827 1.00 37.78	MOTA	3286	CB	LEU B	509	14.974	5.669	20.307	1.00 32.48
ATOM 3289 CD2 LEU B 509 15.854 3.403 20.830 1.00 37.61 ATOM 3290 N LEU B 510 15.836 8.680 21.726 1.00 26.40 ATOM 3291 CA LEU B 510 16.544 9.917 21.631 1.00 29.83 ATOM 3292 C LEU B 510 17.718 9.962 22.640 1.00 27.70 ATOM 3293 O LEU B 510 18.780 10.574 22.463 1.00 25.15 ATOM 3294 CB LEU B 510 15.679 11.127 21.928 1.00 37.31 ATOM 3295 CG LEU B 510 14.737 11.758 20.914 1.00 43.51 ATOM 3296 CD1 LEU B 510 13.671 12.521 21.714 1.00 47.22 ATOM 3297 CD2 LEU B 510 15.336 12.812 20.015 1.00 39.00 ATOM 3298 N SER B 511 17.483 9.251 23.788 1.00 25.53 ATOM 3299 CA SER B 511 18.540 9.158 24.767 1.00 22.45 ATOM 3300 C SER B 511 19.689 8.297 24.204 1.00 16.69 ATOM 3301 O SER B 511 19.689 8.297 24.204 1.00 16.69 ATOM 3302 CB SER B 511 18.121 8.283 25.975 1.00 25.55 ATOM 3303 OG SER B 511 19.264 8.432 26.827 1.00 37.78									
ATOM 3291 CA LEU B 510 16.544 9.917 21.631 1.00 29.83 ATOM 3292 C LEU B 510 17.718 9.962 22.640 1.00 27.70 ATOM 3293 O LEU B 510 18.780 10.574 22.463 1.00 25.15 ATOM 3294 CB LEU B 510 15.679 11.127 21.928 1.00 37.31 ATOM 3295 CG LEU B 510 14.737 11.758 20.914 1.00 43.51 ATOM 3296 CD1 LEU B 510 13.671 12.521 21.714 1.00 47.22 ATOM 3297 CD2 LEU B 510 15.336 12.812 20.015 1.00 39.00 ATOM 3298 N SER B 511 17.483 9.251 23.788 1.00 25.53 ATOM 3299 CA SER B 511 18.540 9.158 24.767 1.00 22.45 ATOM 3300 C SER B 511 19.689 8.297 24.204 1.00 16.69 ATOM 3301 O SER B 511 20.855 8.465 24.528 1.00 21.23 ATOM 3302 CB SER B 511 18.121 8.283 25.975 1.00 25.55 ATOM 3303 OG SER B 511 19.264 8.432 26.827 1.00 37.78									
ATOM 3293 O LEU B 510 18.780 10.574 22.463 1.00 25.15 ATOM 3294 CB LEU B 510 15.679 11.127 21.928 1.00 37.31 ATOM 3295 CG LEU B 510 14.737 11.758 20.914 1.00 43.51 ATOM 3296 CD1 LEU B 510 13.671 12.521 21.714 1.00 47.22 ATOM 3297 CD2 LEU B 510 15.336 12.812 20.015 1.00 39.00 ATOM 3298 N SER B 511 17.483 9.251 23.788 1.00 25.53 ATOM 3299 CA SER B 511 18.540 9.158 24.767 1.00 22.45 ATOM 3300 C SER B 511 19.689 8.297 24.204 1.00 16.69 ATOM 3301 O SER B 511 20.855 8.465 24.528 1.00 21.23 ATOM 3302 CB SER B 511 18.121 8.283 25.975 1.00 25.55 ATOM 3303 OG SER B 511 19.264 8.432 26.827 1.00 37.78								21.631	1.00 29.83
ATOM 3294 CB LEU B 510 15.679 11.127 21.928 1.00 37.31 ATOM 3295 CG LEU B 510 14.737 11.758 20.914 1.00 43.51 ATOM 3296 CD1 LEU B 510 13.671 12.521 21.714 1.00 47.22 ATOM 3297 CD2 LEU B 510 15.336 12.812 20.015 1.00 39.00 ATOM 3298 N SER B 511 17.483 9.251 23.788 1.00 25.53 ATOM 3299 CA SER B 511 18.540 9.158 24.767 1.00 22.45 ATOM 3300 C SER B 511 19.689 8.297 24.204 1.00 16.69 ATOM 3301 O SER B 511 20.855 8.465 24.528 1.00 21.23 ATOM 3302 CB SER B 511 18.121 8.283 25.975 1.00 25.55 ATOM 3303 OG SER B 511 19.264 8.432 26.827 1.00 37.78									
ATOM 3296 CD1 LEU B 510 13.671 12.521 21.714 1.00 47.22 ATOM 3297 CD2 LEU B 510 15.336 12.812 20.015 1.00 39.00 ATOM 3298 N SER B 511 17.483 9.251 23.788 1.00 25.53 ATOM 3299 CA SER B 511 18.540 9.158 24.767 1.00 22.45 ATOM 3300 C SER B 511 19.689 8.297 24.204 1.00 16.69 ATOM 3301 O SER B 511 20.855 8.465 24.528 1.00 21.23 ATOM 3302 CB SER B 511 18.121 8.283 25.975 1.00 25.55 ATOM 3303 OG SER B 511 19.264 8.432 26.827 1.00 37.78	ATOM	3294	CB	LEU B	510	15.679	11.127	21.928	1.00 37.31
ATOM 3297 CD2 LEU B 510 15.336 12.812 20.015 1.00 39.00 ATOM 3298 N SER B 511 17.483 9.251 23.788 1.00 25.53 ATOM 3299 CA SER B 511 18.540 9.158 24.767 1.00 22.45 ATOM 3300 C SER B 511 19.689 8.297 24.204 1.00 16.69 ATOM 3301 O SER B 511 20.855 8.465 24.528 1.00 21.23 ATOM 3302 CB SER B 511 18.121 8.283 25.975 1.00 25.55 ATOM 3303 OG SER B 511 19.264 8.432 26.827 1.00 37.78									
ATOM 3299 CA SER B 511 18.540 9.158 24.767 1.00 22.45 ATOM 3300 C SER B 511 19.689 8.297 24.204 1.00 16.69 ATOM 3301 O SER B 511 20.855 8.465 24.528 1.00 21.23 ATOM 3302 CB SER B 511 18.121 8.283 25.975 1.00 25.55 ATOM 3303 OG SER B 511 19.264 8.432 26.827 1.00 37.78	ATOM	3297	CD2	LEU B	510	15.336	12.812	20.015	1.00 39.00
ATOM 3300 C SER B 511 19.689 8.297 24.204 1.00 16.69 ATOM 3301 O SER B 511 20.855 8.465 24.528 1.00 21.23 ATOM 3302 CB SER B 511 18.121 8.283 25.975 1.00 25.55 ATOM 3303 OG SER B 511 19.264 8.432 26.827 1.00 37.78				SER B	511				
ATOM 3302 CB SER B 511 18.121 8.283 25.975 1.00 25.55 ATOM 3303 OG SER B 511 19.264 8.432 26.827 1.00 37.78	MOTA	3300	С	SER B	511	19.689	8.297	24.204	1.00 16.69
		3302		SER B	511	18.121	8.283	25.975	1.00 25.55
	MOTA MOTA	3303 3304	OG N	SER B HIS B	511 512	19.264 19.300	8.432 7.293	26.827 23.385	

ATOM ATOM ATOM	3305 3306 3307	CA C O	HIS B 512 HIS B 512 HIS B 512	21	.289 .052 .260	6.421 7.157 6.952	22.761 21.630 21.469	1.00 20.94 1.00 24.96 1.00 17.72
ATOM ATOM ATOM	3308 3309 3310	CB CG	HIS B 512 HIS B 512 HIS B 512	19 18	.656 .936 .329	5.159 4.371 3.065	22.182 23.266 23.351	1.00 21.42 1.00 26.29
MOTA MOTA	3311 3312	CD2 CE1	HIS B 512 HIS B 512	17 18	.948 .647	4.525 2.497	24.167 24.304	1.00 31.77 1.00 33.28
ATOM ATOM ATOM	3313 3314 3315	NE2 N CA	VAL B 513 VAL B 513	20 21	.777 .370 .080	3.303 8.113 8.894	24.816 20.952 19.944	1.00 28.54 1.00 22.54 1.00 23.43
ATOM ATOM ATOM	3316 3317 3318	C O CB	VAL B 513 VAL B 513 VAL B 513	23	.010 .177 .108	9.865 10.063 9.616	20.659 20.292 18.990	1.00 25.90 1.00 19.83 1.00 23.47
ATOM ATOM ATOM	3319 3320 3321	CG1 CG2 N	VAL B 513 VAL B 513 ARG B 514	19	.981 .093 .601	10.300 8.646 10.431	17.923 18.398 21.820	1.00 24.99 1.00 22.87 1.00 20.20
ATOM ATOM ATOM	3322 3323 3324	CA C O	ARG B 514 ARG B 514 ARG B 514	22 23	.454 .722 .780	11.311 10.555 11.111	22.586 23.082 23.070	1.00 19.38 1.00 20.72 1.00 19.22
ATOM ATOM ATOM	3325 3326 3327	CB CG CD	ARG B 514 ARG B 514 ARG B 514	21 22	.775 .723 .204	11.826 12.689 13.947	23.891 24.724 24.011	1.00 20.64 1.00 25.83 1.00 35.37
ATOM ATOM	3328 3329 3330	NE CZ	ARG B 514 ARG B 514 ARG B 514	22 21	.455 .394 .304	15.060 15.577	24.415 24.923 25.392	1.00 43.69 1.00 51.47
ATOM ATOM ATOM	3331 3332	NH2 N	ARG B 514 HIS B 515	21 23	.323 .484	15.017 16.891 9.350	25.016 23.563	1.00 60.27 1.00 57.39 1.00 17.72
ATOM ATOM ATOM	3333 3334 3335	CA C O	HIS B 515 HIS B 515 HIS B 515	25 26	.641 .609 .833	8.527 8.235 8.352	24.041 22.923 23.105	1.00 19.41 1.00 17.42 1.00 18.81
ATOM ATOM ATOM	3336 3337 3338	CB CG ND1		24 25	.964 .967 .814	7.245 6.484 5.598	24.547 25.347 24.711	1.00 19.53 1.00 24.48 1.00 39.46
ATOM ATOM ATOM	3339 3340 3341	CE1 NE2	HIS B 515	26 26	.237 .596 .258	6.457 5.036 5.525	26.665 25.611 26.792	1.00 28.08 1.00 33.92 1.00 34.27
ATOM ATOM ATOM	3342 3343 3344	N CA C	ALA B 516 ALA B 516 ALA B 516	26 26	.130 .082 .867	7.970 7.720 8.947	21.699 20.593 20.257	1.00 19.19 1.00 15.11 1.00 16.34
ATOM ATOM ATOM	3345 3346 3347	O CB N	ALA B 516 ALA B 516 SER B 517	25 26	.068 .327 .166	8.937 7.177 10.096	19.968 19.359 20.266	1.00 17.56 1.00 17.83 1.00 15.85
ATOM ATOM ATOM	3348 3349 3350	CA C O	SER B 517 SER B 517 SER B 517	27 29	.891 .920 .050	11.347 11.649 12.088	19.977 21.051 20.754	1.00 15.27 1.00 18.02 1.00 17.13
ATOM ATOM ATOM	3351 3352 3353	CB OG N	SER B 517 SER B 517 ASN B 518	25	.838 .189 .604	12.475 12.747 11.369	19.866 21.054 22.326	1.00 18.28 1.00 29.75 1.00 14.32
ATOM ATOM ATOM	3354 3355 3356	CA C O	ASN B 518 ASN B 518 ASN B 518	29	.587 .805 .927	11.664 10.730 11.214	23.377 23.197 23.310	1.00 14.12 1.00 15.89 1.00 18.55
ATOM ATOM ATOM	3357 3358 3359	CB CG OD1	ASN B 518 ASN B 518 ASN B 518	26	.901 .965 .007	11.353 12.556 13.650	24.713 25.079 24.599	1.00 18.47 1.00 23.21 1.00 33.02
ATOM ATOM ATOM	3360 3361 3362	ND2 N CA	ASN B 518 LYS B 519 LYS B 519	29	.100 .461 .631	12.019 9.465 8.547	25.959 22.896 22.734	1.00 24.38 1.00 16.87 1.00 20.10
MOTA MOTA MOTA	3363 3364 3365	C O CB	LYS B 519 LYS B 519 LYS B 519	32	.444 .691 .172	8.876 8.723 7.094	21.488 21.474 22.727	1.00 23.76 1.00 16.66 1.00 18.89
ATOM ATOM ATOM	3366 3367 3368	CG CD CE	LYS B 519 LYS B 519 LYS B 519	29	.394 .724 .035	6.586 7.102 6.723	23.923 25.286 25.916	1.00 31.80 1.00 43.98 1.00 48.07
ATOM ATOM ATOM	3369 3370 3371	NZ N CA	LYS B 519 GLY B 520 GLY B 520	31 30	.007 .769 .438	5.403 9.348 9.749	26.621 20.435 19.198	1.00 54.91 1.00 19.42 1.00 18.51
MOTA MOTA MOTA	3372 3373 3374	C 0 N	GLY B 520 GLY B 520 MET B 521	32 33	.290 .426 .831	10.965 11.046 11.961	19.436 18.973 20.208	1.00 19.23 1.00 18.96 1.00 16.60
ATOM ATOM ATOM	3375 3376 3377	CA C O	MET B 521 MET B 521 MET B 521	32 33	.612 .820 .905	13.162 12.807 13.329	20.468 21.339 21.135	1.00 19.17 1.00 21.93 1.00 20.60
ATOM ATOM ATOM	3378 3379 3380	CB CG SD	MET B 521 MET B 521 MET B 521	31 30	.747 .607 .265	14.198 14.758 15.823	21.220 20.381 19.049	1.00 21.74 1.00 24.15 1.00 26.04
ATOM	3381	CE	MET B 521		.488	17.298	20.088	1.00 30.44

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	23333333333333333333333333333333333333	CD2 CE1 NE2 N CA C O CB CCD1 CD2 CC CD2 CC	GLUS BEBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	522222222333333333344444444455555555555		33.647 34.776 35.8856 37.0856 36.0854 35.34.913 33.7466 35.35.416 36.6273 35.5448 36.6273 37.5534 36.6273 37.5534 36.9994 37.9994 37.9994 37.9994 37.9994 37.9994 37.9994 37.9994 38.942 39.548 39.885	11.869 11.484 10.863 11.164 10.077 8.927 8.9299 8.841 10.0250 10.365 10.298 7.584 7.948 6.5123 61.3238 11.326 12.338 13.454 13.210 14.466 14.051 15.143 13.523 13.454 13.523 13.454 13.523 13.140 14.4661 15.143 13.523 13.140 14.4661 15.143 13.523 13.140 14.4661 15.143 13.523 13.140 14.4661 15.143 13.523 13.413 13.454 14.641 15.434 15.434 16.6521 11.161 9.881 10.5883 11.174 12.460	22.282 22.267 24.133 25.821 26.032 25.821 26.357 20.391 19.575 18.645 17.705 18.889 16.770 18.889 16.7705 18.889 16.7556 18.889 16.7555 18.645 17.5556 18.889 16.7555 18.645 17.705 18.889 16.755 18.889 16.755 18.889 16.755 18.889 16.755 18.889 16.755 18.889 16.755 18.889 16.755 18.889 16.755 18.889 16.755 18.889 16.755 18.889 16.755 18.889 16.755 18.889 16.755 18.889 16.755 18.889 17.765 18.889 18.899 18.999 18.899 18.899 18.899 18.899 18.899 18.899 18.899 18.899 18.9	1.00 20.10 1.00 25.43 1.00 26.45 1.00 23.05 1.00 27.73 1.00 31.13 1.00 29.63 1.00 20.32 1.00 20.93 1.00 20.93 1.00 23.46 1.00 25.39 1.00 23.46 1.00 25.84 1.00 27.36 1.00 27.67 1.00 23.83 1.00 25.77 1.00 24.32 1.00 24.32 1.00 25.59 1.00 25.59 1.00 25.59 1.00 23.60 1.00 23.60 1.00 24.90 1.00 24.90 1.00 24.90 1.00 24.90 1.00 24.90 1.00 25.60 1.00 26.85
ATOM ATOM ATOM	3428 3429 3430	O CB CG	MET B MET B MET B	527 527 527	•	43.626 40.715 40.079	12.425 10.916 9.529	17.038 16.641 16.527	1.00 29.13 1.00 28.30 1.00 22.52
ATOM ATOM ATOM ATOM	3431 3432 3433 3434	SD CE N CA	MET B MET B LYS B LYS B	527 528 528		41.342 41.422 41.987 42.705	8.219 7.830 13.595 14.868	16.443 18.188 17.971 17.880	1.00 30.70 1.00 31.91 1.00 23.43 1.00 26.38
ATOM ATOM ATOM ATOM	3435 3436 3437 3438	C O CB CG	LYS B LYS B LYS B	528 528 528		43.913 45.026 41.779 42.336	14.849 15.174 16.009 17.413	18.816 18.370 18.234 18.172	1.00 31.70 1.00 29.21 1.00 29.86 1.00 29.01
ATOM ATOM ATOM	3439 3440 3441 3442	CD CE NZ N	LYS B LYS B LYS B CYS B	528 528 529		43.113 43.464 43.763 43.742	17.831 19.315 19.878 14.397	19.415 19.289 20.650 20.035	1.00 36.75 1.00 41.62 1.00 47.99 1.00 27.02
ATOM ATOM ATOM	3443 3444 3445 3446	CA C O CB	CYS B CYS B CYS B	529 529 529		44.798 45.901 47.047 44.201	14.307 13.362 13.594 13.981	21.042 20.645 21.040 22.433	1.00 28.86 1.00 30.53 1.00 32.58 1.00 35.32
ATOM ATOM ATOM ATOM ATOM	3447 3448 3449 3450 3451	SG N CA C	CYS B LYS B LYS B LYS B	530 530 530		43.338 45.614 46.511 47.140 47.942	15.486 12.388 11.398 11.887	23.003 19.802 19.246 17.944	1.00 38.75 1.00 28.29 1.00 31.42 1.00 27.27
ATOM ATOM ATOM	3452 3453 3454	O CB CG CD	LYS B LYS B LYS B	530 530 530		45.654 46.422 45.471	11.204 10.141 8.905 7.761	17.314 18.988 18.632 18.253	1.00 31.67 1.00 33.17 1.00 41.59 1.00 29.36
ATOM ATOM ATOM ATOM	3455 3456 3457 3458	CE NZ N CA	LYS B LYS B ASN B ASN B	530 531		46.310 45.789 46.811 47.347	6.765 5.391 13.118 13.713	17.488 17.518 17.528 16.304	1.00 35.55 1.00 35.31 1.00 25.91 1.00 30.46

ATOM	3459	C	ASN B 531		16.902	13.034			31.27	
ATOM ATOM	3460 3461	O CB	ASN B 531 ASN B 531	4	17.585 18.889	13.155 13.793	13.991 16.383		28.41	
ATOM	3462	CG	ASN B 531	4	19.304	14.743	17.504		39.58	
ATOM ATOM	3463 3464		ASN B 531 ASN B 531		19.678 19.187	14.366 16.044	18.623 17.258		36.05 35.04	
ATOM	3465	N	VAL B 532	4	5.734	12.377	15.020	1.00	28.01	
ATOM ATOM	3466 3467	CA C	VAL B 532 VAL B 532	4	5.186 4.368	11.714 12.687	13.840 13.009		29.98 30.41	
ATOM	3468	Ö	VAL B 532		4.263	12.574	11.785		28.60	
ATOM	3469	CB	VAL B 532	4	4.390	10.454	14.257		29.00	
ATOM ATOM	3470 3471	CG1	VAL B 532 VAL B 532	4	3.649 5.415	9.804 9.473	13.088 14.831		28.46	
MOTA	3472	N	VAL B 533	4	3.672	13.600	13.685	1.00	25.44	
ATOM ATOM	3473 3474	CA C	VAL B 533 VAL B 533		2.933 3.376	14.676 15.979	13.079 13.765		27.02 25.40	
MOTA	3475	0	VAL B 533	. 4	3.700	16.066	14.956		29.36	
ATOM	3476	CB CC1	VAL B 533	4	1.397	14.535	13.241		24.66	
MOTA ATOM	3477 3478	CG1	VAL B 533 VAL B 533 VAL B 533	4	0.874 1.011	13.320 14.527	12.485 14.699		26.45 23.82	
MOTA	3479	N	PRO B 534	4	3.251	17.087	13.047		27.85	
ATOM ATOM	3480 3481	CA C	PRO B 534 PRO B 534		3.681 2.778	18.366 19.000	13.555 14.583		32.15 30.18	
MOTA	3482	ŏ	DDO B 534	1	3.262	19.800	15.358	1.00	30.62	
ATOM ATOM	3483 3484	CB CG	PRO B 534 PRO B 534	4	3.653 2.778	19.283 18.627	12.316 11.320		32.15 29.14	
ATOM	3485	CD	PRO B 534	4	2.893	17.136	11.607		29.21	
ATOM	3486	N	VAL B 535	4	1.445	18.825	14.472		28.17	
ATOM ATOM	3487 3488	CA C	VAL B 535 VAL B 535	3	0.597 9.468	19.521 18.630	15.441 15.932		32.07	
ATOM	3489	0	VAL B 535	3	9.126	17.651	15.295	1.00	26.97	
MOTA MOTA	3490 3491	CB CG1	VAL B 535	3	9.999	20.809 21.890	14.832 14.529		34.84 36.98	
ATOM	3492	CG2	VAL B 535 VAL B 535	3	9.255	20.409	13.572		31.81	
ATOM	3493	N	TYR B 536	3	8.831	19.062	17.003		30.00	
ATOM ATOM	3494 3495	CA	TYR B 536 TYR B 536		7.724	18.337 18.981	17.616 17.329		28.84 29.31	
MOTA	3496	0	TYR B 536	3	5.403	18.246	17.047	1.00	27.74	
MOTA MOTA	3497 3498	CB CG	TYR B 536 TYR B 536		8.008 6.918	18.489 18.169	19.142 20.108		34.32 35.17	
ATOM	3499		TYR B 536	3	6.298	16.928	20.114	1.00	37.04	
ATOM	3500 3501	CD2	TYR B 536 TYR B 536	3	6.522 5.305	19.088 16.590	21.077 21.015		36.24 35.06	
ATOM ATOM	3501		TYR B 536	3	5.542	18.775	22.004		38.43	
ATOM	3503	CZ	TYR B 536	3	4.948	17.524	21.970		42.22	
ATOM ATOM	3504 3505	OH N	TYR B 536 ASP B 537	3	3.966 6.287	17.244 20.310	22.897 17.501		43.09 27.59	
MOTA	3506	CA	ASP B 537	3	5.014	20.990	17.261	1.00	26.75	
ATOM ATOM	3507 3508	С 0	ASP B 537 ASP B 537		5.245	21.251 22.251	15.770 15.172		21.54 25.75	
ATOM	3509	СВ	ASP B 537	3	4.935	22.260	18.124	1.00	34.07	
ATOM	3510 3511	CG OD1	ASP B 537 ASP B 537	_	3.646	23.015 22.699	17.986 17.100		37.10 31.06	
ATOM ATOM	3512		ASP B 537		3.377	23.965	18.764		41.65	
MOTA	3513	N	LEU B 538		4.176	20.290	15.097		21.88	
ATOM ATOM	3514 3515	CA C	LEU B 538 LEU B 538		3.969	20.358 21.491	13.658 13.255		19.71 22.91	
ATOM	3516	0	LEU B 538	3	3.160	21.957	12.131		24.45	
MOTA ATOM	3517 3518	CB CG	LEU B 538 LEU B 538		3.492 4.418	19.001 17.824	13.110 13.459		18.93 22.91	
ATOM	3519		LEU B 538	. 3	3.920	16.505	12.794	1.00	20.69	
ATOM ATOM	3520 3521	CD2 N	LEU B 538 LEU B 539		5.853 2.091	18.061 21.876	13.025 14.108		22.04 22.95	
ATOM	3522	CA	LEU B 539		1.189	22.953	13.701	1.00	21.70	
ATOM	3523	C	LEU B 539		2.004	24.268	13.686		22.79 22.25	
ATOM ATOM	3524 3525	O CB	LEU B 539 LEU B 539		1.823	24.990 23.045	12.726 14.708		21.40	
ATOM	3526	CG	LEU B 539		9.106	24.243	14.530		23.23	
ATOM ATOM	3527 3528		LEU B 539 LEU B 539		8.381 8.166	24.140 24.276	13.201 15.738		24.06 26.44	
MOTA	3529	N	LEU B 540	3	2.864	24.462	14.686	1.00	23.27	
ATOM ATOM	3530 3531	CA C	LEU B 540 LEU B 540		3.708 4.663	25.685 25.717	14.634 13.455		28.70 28.37	
MOTA	3532	Ö	LEU B 540	3	4.834	26.678	12.696	1.00	27.01	
ATOM	3533	CB	LEU B 540 LEU B 540		4.507	25.810 26.965	15.930 16.014		32.27 34.48	
ATOM ATOM	3534 3535	CG CD1	LEU B 540		4.820	28.314	16.014		36.62	

ATOM ATOM	3536 3537	N CD3		540 541	36.392 35.261	26.787 24.554	17.238	1.00 33.58
ATOM	3538	CA	GLU B 5	541	36.110	24.377	13.163	1.00 25.90 1.00 28.83
ATOM ATOM	3539 3540	C 0		541 541	35.353 35.907	24.677 25.264	10.716 9.780	1.00 26.71 1.00 27.58
ATOM ATOM	3541 3542	CB CG		541 541	36.668 37.586	22.954 22.755	11.942 10.739	1.00 31.67 1.00 37.81
MOTA	3543	CD	GLU B 5	541	38.822	23.628	10.726	1.00 42.72
ATOM ATOM	3544 3545	OE1 OE2		541 541	39.328 39.364	24.080 23.882	11.773 9.619	1.00 41.96 1.00 49.77
ATOM ATOM	3546 3547	N CA	MET B 5	542 542	34.101 33.361	24.215 24.549	10.582 9.369	1.00 21.11 1.00 21.46
ATOM	3548	С	MET B 5	542	33.144	26.074	9.333	1.00 22.23
ATOM ATOM	3549 3550	O CB		542	33.300 32.003	26.628 23.847	8.239 9.390	1.00 25.20 1.00 21.82
ATOM ATOM	3551 3552	CG SD		542 542	31.146 30.138	23.993 25.489	8.154 8.182	1.00 27.74 1.00 24.48
ATOM	3553 3554	CE	MET B 5	42	29.030	25.202	9.538	1.00 23.74
ATOM ATOM	3555	N CA	LEU B 5	543 543	32.654 32.384	26.637 28.096	10.427 10.400	1.00 25.07 1.00 32.44
ATOM ATOM	3556 3557	C		543 543	33.648 33.626	28.931 29.919	10.186 9.434	1.00 32.47 1.00 39.36
MOTA MOTA	3558 3559	CB CG	LEU B 5	343 343	31.756 30.295	28.506 28.017	11.736	1.00 28.21
MOTA	3560	CD1	LEU B 5	43	29.856	28.264	11.868 13.307	1.00 27.82 1.00 30.68
ATOM ATOM	3561 3562	CD2		543 544	29.426 34.734	28.759 28.558	10.866 10.811	1.00 30.79 1.00 33.87
ATOM ATOM	3563 3564	CA C		44 44	36.008 36.436	29.257 29.221	10.626 9.162	1.00 39.63 1.00 41.53
ATOM	3565	0	ASN B 5	44	36.977	30.193	8.636	1.00 42.20
ATOM ATOM	3566 3567	CB CG	ASN B 5	44	37.102 37.112	28.607 28.924	11.477 12.951	1.00 36.92 1.00 39.12
ATOM ATOM	3568 3569	OD1 ND2		44	37.757 36.493	28.217 29.972	13.756 13.428	1.00 37.46 1.00 29.53
ATOM	3570 3571	N	ALA B 5	45	36.256	28.101	8.473	1.00 40.06
MOTA MOTA	3572	CA C	ALA B 5	45 45 ·	36.666 35.732	27.896 28.432	7.108 6.039	1.00 39.33 1.00 39.87
ATOM ATOM	3573 3574	O CB		45 45	36.193 36.819	28.906 26.376	4.998 6.841	1.00 40.21 1.00 33.40
ATOM ATOM	3575 3576	N CA	HIS B 5	46 46	34.431 33.480	28.411 28.821	6.293 5.244	1.00 36.60 1.00 38.90
ATOM	3577	С	HIS B 5	46	33.205	30.297	5.338	1.00 39.14
ATOM ATOM	3578 3579	O CB		46 46	33.39 <b>4</b> 32.268	30.906 27.883	6.385 5.289	1.00 43.73 1.00 37.08
ATOM ATOM	3580 3581	CG ND1		46 46	32.547 32.182	26.471 25.966	4.852 3.629	1.00 36.68 1.00 36.35
MOTA	3582	CD2	HIS B 5	46	33.186	25.442	5.473	1.00 40.79
ATOM ATOM	3583 3584	NE2	HIS B 5	46	32.561 33.165	24.716 24.361	3.497 4.640	1.00 35.39 1.00 38.95
ATOM ATOM	3585 3586	N CA	VAL B 5 VAL B 5	47 47	33.003 32.780	30.981 32.419	4.208 4.181	1.00 42.53 1.00 40.61
ATOM ATOM	3587 3588	C 0	VAL B 5 VAL B 5		31.349 30.740	32.788 32.127	3.798 2.957	1.00 39.74 1.00 46.40
ATOM	3589	CB	VAL B 5	47	33.726	33.076	3.154	1.00 42.18
ATOM ATOM	3590 3591		VAL B 5 VAL B 5	47	33.616 33.495	32.422 34.575	1.780 3.040	1.00 41.34 1.00 43.99
ATOM ATOM	3592 3593	N CA	LEU B 5		30.827 29.489	33.854 34.369	4.375 4.090	1.00 43.11 1.00 43.63
ATOM ATOM	3594 3595	C	LEU B 5 LEU B 5	48	29.417 30.417	34.918 35.117	2.660 1.969	1.00 48.73 1.00 47.22
MOTA	3596	CB	LEU B 5	48	29.044	35.433	5.094	1.00 42.47
ATOM ATOM	3597 3598	CG CD1	LEU B 5 LEU B 5		28.696 28.361	34.945 36.107	6.515 7.435	1.00 42.36 1.00 39.25
ATOM ATOM	3599 3600	CD2 N	LEU B 5 ALA B 5		27.522 28.184	33.977 35.165	6.526 2.229	1.00 37.00 1.00 53.29
ATOM	3601	CA	ALA B 5	49	27.801	35.658	0.924	1.00 57.20
ATOM	3602 3603	C 0	ALA B 5	49	27.755 27.504	37.172 37.897	0.789 1.766	1.00 58.59 1.00 60.47
ATOM ATOM	3604 3605	CB C1	ALA B 5 GEN C 6		26.397 32.490	35.104 11.892	0.615 39.227	1.00 58.47 1.00 23.90
ATOM ATOM	3606 3607	C2 C3	GEN C 6		32.091 30.791	10.767	39.973 40.540	1.00 23.88 1.00 21.97
MOTA	3608	C4	GEN C 6	01	29.974	11.941	40.273	1.00 20.22
ATOM ATOM	3609 3610	C5 C6	GEN C 6	01 01	30.407 31.687	13.070 13.016	39.515 38.980	1.00 22.71 1.00 24.29
ATOM ATOM	3611 3612	09 C10	GEN C 6 GEN C 6		30.434 29.135	9.701 9.720	41.275 41.824	1.00 23.58 1.00 20.60
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ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3613 3614 3615 3616 3617 3618 3621 3622 3623 3624 3625 3626 3627 3633 3633 3633	C11 GEN C C12 GEN C C14 GEN C C15 GEN C C16 GEN C C17 GEN C C19 GEN C C19 GEN C O24 GEN C O25 GEN C O26 GEN C C1 GEN D C2 GEN D C2 GEN D C3 GEN D C4 GEN D C4 GEN D C5 GEN D C6 GEN D C6 GEN D C10 GEN D C11 GEN D C11 GEN D	601 601 601 601 601 601 601 601 601 601	28.291 28.643 26.934 26.998 25.776 24.614 24.573 25.767 29.585 33.774 27.876 34.731 34.440 33.256 32.411 32.748 33.914 32.964 31.785 30.924	10.807 12.006 10.633 10.018 9.792 10.226 10.850 11.099 10.045 14.156 11.844 12.939 10.000 11.148 11.061 9.951 8.810 8.885 12.148 12.156 11.060	41.674 40.859 42.366 43.636 44.345 42.417 41.719 44.278 39.335 38.689 40.682 15.313 14.517 13.736 13.824 14.669 15.399 12.179 12.149	1.00 18.73 1.00 18.14 1.00 23.96 1.00 19.90 1.00 20.07 1.00 20.86 1.00 18.28 1.00 16.50 1.00 19.99 1.00 21.98 1.00 20.60 1.00 19.82 1.00 20.77 1.00 20.53 1.00 22.18 1.00 17.57 1.00 20.54 1.00 18.54 1.00 21.94 1.00 18.11
ATOM	3634	C12 GEN D	601	31.189	9.872	13.066	1.00 21.61
ATOM	3635	C14 GEN D		29.691	11.207	11.272	1.00 17.89
ATOM	3636	C15 GEN D		29.976	11.887	10.015	1.00 17.97
ATOM	3637	C16 GEN D		28.831	12.058	9.180	1.00 19.03
ATOM	3638	C17 GEN D	601	27.595	11.594	9.607	1.00 19.16
ATOM	3639	C18 GEN D	601	27.347	10.930	10.842	1.00 18.76
ATOM	3640	C19 GEN D		28.475	10.743	11.680	1.00 18.44
MOTA	3641	O24 GEN D		26.486	11.807	8.806	1.00 19.69
MOTA	3642	O25 GEN D		31.896	7.770	14.659	1.00 23.07
ATOM	3643 3644	026 GEN D	601	35.877	10.078	16.050	1.00 21.64
ATOM ATOM	3645	W TAW 0WO	601 1	30.419 20.594	8.942 8.842	13.063 43.843	1.00 21.28 1.00 18.37
ATOM	3646	W TAW 0WO	2	14.063	18.381	7.933	1.00 21.34
ATOM	3647		3	34.441	20.788	9.936	1.00 22.98
MOTA MOTA	3648 3649	OWO WAT W	4 5	23.692 19.222	13.028 22.147	8.639	1.00 21.23
MOTA	3650	W TAW OWO	6	11.448	4.004	42.611 40.415	1.00 23.71 1.00 23.15
ATOM	3651	W TAW 0WO	7	23.203	15.680	5.742	1.00 23.89
ATOM	3652		8	21.871	14.905	9.573	1.00 22.37
MOTA	3653	W TAW 0WO	9	27.959	17.792	18.999	1.00 27.12
MOTA	3654		10	11.009	3.171	42.889	1.00 23.32
MOTA	3655	W TAW OWO	11	14.021	17.668	10.521	1.00 23.54
ATOM	3656	OWO WAT W	12	19.633	6.095	46.714	1.00 24.75
ATOM	3657		13	21.902	17.659	9.044	1.00 27.81
ATOM	3658	W TAW 0WO	14	18.986	6.850	42.583	1.00 19.48
ATOM	3659		15	25.651	16.524	19.584	1.00 20.56
MOTA	3660	W TAW 0WO	16	22.299	-0.256	9.519	1.00 29.51
ATOM	3661	W TAW 0WO	17,	15.024	10.870	25.417	1.00 27.29
ATOM	3662		18	23.250	18.239	6.810	1.00 25.22
ATOM	3663	W TAW 0WO	19	26.908	4.204	34.548	1.00 24.63
ATOM	3664		20	18.354	28.175	4.814	1.00 33.17
MOTA	3665	W TAW 0WO	21	19.790	3.374	45.626	1.00 24.25
ATOM	3666	W TAW 0WO	22	18.007	22.841	3.919	1.00 27.68
ATOM	3667		23	46.993	5.908	9.668	1.00 26.51
ATOM	3668	W TAW 0WO	24	24.507	5.376	33.461	1.00 21.53
ATOM	3669		25	19.262	17.958	8.795	1.00 25.20
ATOM ATOM	3670 3671	W TAW OWO	26 27	35.957 19.056	18.589 4.126	9.557	1.00 27.11
MOTA	3672	W TAW 0WO	28	13.848	30.071	43.078 10.671	1.00 24.17 1.00 30.60
ATOM	3673	W TAW 0WO	29	14.277	-1.107	47.634	1.00 29.57
ATOM	3674		30	1.298	10.175	20.241	1.00 23.69
ATOM	3675	W TAW 0WO	31	31.050	8.239	29.186	1.00 30.83
ATOM	3676		32	18.563	23.370	40.373	1.00 27.01
MOTA	3677	W TAW 0WO	33	20.290	21.874	20.963	1.00 33.27
ATOM	3678	W TAW 0WO	34	17.478	6.072	28.714	1.00 35.57
ATOM	3679		35	50.053	12.647	12.109	1.00 37.72
ATOM	3680	W TAW 0WO	36	20.619	1.437	21.138	1.00 30.60
ATOM	3681		37	21.302	-4.994	47.887	1.00 29.39
MOTA	3682	W TAW OWO	38	28.170	9.720	-1.849	1.00 32.07
ATOM	3683	W TAW 0WO W TAW 0WO	39	31.362	1.220	44.700	1.00 29.94
ATOM	3684		40	20.546	22.103	3.866	1.00 28.15
ATOM	3685	W TAW 0WO	41	46.350	2.724	9.952	1.00 30.93
ATOM	3686		42	15.588	16.297	49.060	1.00 32.92
ATOM	3687	W TAW 0WO	43	39.739	17.212	12.409	1.00 28.98
MOTA	3688	W TAW 0WO	44	18.564	13.342	22.347	1.00 27.99
MOTA	3689		45	11.265	-8.394	40.040	1.00 33.13

MOTA	3690	TAW 0WO	w 46	3.123	12.261	42.568	1.00 28.66
MOTA	3691	TAW 0WO		31.354	13.280	25.163	1.00 28.87
ATOM	3692	TAW 0WO	W 48	0.658	11.369	28.091	1.00 31.71
MOTA	3693		W 49	38.712	22.250	18.051	1.00 40.44
ATOM	3694	TAW OWO		43.645	4.572	40.510	1.00 41.82
ATOM	3695	OWO WAT		38.532	18.730	10.324	1.00 34.38
ATOM ATOM	3696	TAW 0WO		-1.359	10.932	29.947	1.00 31.87
ATOM	3697 3698	TAW 0WO		19.994 50.451	5.430	2.327	1.00 35.83
ATOM	3699	OWO WAT		3.107	11.840 19.354	19.513 37.985	1.00 40.45 1.00 32.85
ATOM	3700	OWO WAT		32.747	3.464	45.164	1.00 32.83
ATOM	3701	TAW OWO		18.054	8.351	29.482	1.00 29.81
ATOM	3702	OWO WAT		23.833	12.539	2.117	1.00 29.50
ATOM	3703	OWO WAT	v 59	36.952	4.680	42.871	1.00 32.99
MOTA	3704	OWO WAT		13.874	18.788	46.438	1.00 34.68
ATOM	3705	OWO WAT		45.734	2.950	16.128	1.00 34.00
ATOM	3706	TAW 0WO		31.298	2.999	-0.169	1.00 32.57
ATOM ATOM	3707 3708	TAW 0WO		46.735	3.167	23.449	1.00 34.81
ATOM	3709	OWO WAT		5.146 19.618	15.414 9.333	44.002 50.357	1.00 36.81
ATOM	3710	OWO WAT		21.594	9.697	48.584	1.00 37.68 1.00 32.45
ATOM	3711	TAW OWO		20.632	14.698	7.174	1.00 32.43
ATOM	3712	TAW OWO		28.617	19.529	20.885	1.00 33.83
ATOM	3713	TAW OWO		16.831	-0.400	48.082	1.00 29.67
ATOM	3714	TAW 0WO	₹ 70	2.344	21.666	15.297	1.00 25.54
ATOM	3715	TAW OWO		5.913	26.127	8.045	1.00 33.92
ATOM	3716	TAW OWO		43.476	16.411	46.827	1.00 35.61
ATOM	3717	TAW OWO		40.314	16.049	9.730	1.00 44.75
ATOM	3718	TAW OWO		12.341	2.799	23.103	1.00 35.80
MOTA	3719	TAW OWO		6.274	9.180	6.926	1.00 28.66
MOTA MOTA	3720 3721	TAW 0WO		27.429 19.214	28.031 20.278	45.111 31.073	1.00 37.68
ATOM	3722	OWO WAT		27.839	2.397	32.790	1.00 33.73 1.00 33.02
ATOM	3723	OWO WAT		-2.391	20.534	10.657	1.00 33.02
ATOM	3724	OWO WAT W			6.274	12.553	1.00 34.23
ATOM	3725	OWO WAT		23.056	16.556	21.213	1.00 35.55
ATOM	3726	OWO WAT W	v 82	1.730	19.909	29.262	1.00 29.41
ATOM	3727	V TAW OWO		21.402	-15.296	31.401	1.00 37.68
ATOM	3728	W TAW OWO		21.577	-1.704	11.851	1.00 29.83
ATOM	3729	OWO WAT W		31.911	11.942	53.219	1.00 42.18
ATOM	3730	OWO WAT W		-2.039	3.962	30.860	1.00 41.23
ATOM ATOM	3731 3732	V TAW 0WO		28.451 19.924	21.819 25.865	0.247 40.473	1.00 77.26 1.00 31.60
MOTA	3733	OWO WAT W		33.450	7.157	30.384	1.00 31.00
ATOM	3734	OWO WAT. W		52.964	10.366	18.355	1.00 26.42
ATOM	3735	W TAW OWO		16.263	3.694	42.911	1.00 25.64
MOTA	3736	OWO WAT W	<i>i</i> 92	18.833	4.410	30.465	1.00 31.34
MOTA	3737	V TAW 0WO		28.412	17.068	-2.056	1.00 29.02
ATOM	3738	OWO WAT W		14.490	23.651	24.369	1.00 34.47
MOTA	3739	V TAW 0WO		30.926	-4.668	52.419	1.00 46.78
ATOM ATOM	3740 3741	V TAW 0WO		11.689	18.916	27.939	1.00 44.56
ATOM	3742	OWO WAT W		30.260 22.914	0.786 -4.010	34.779 11.910	1.00 37.00 1.00 39.16
ATOM	3743	W TAW OWO		20.013	15.557	-3.230	1.00 43.89
ATOM	3744	OWO WAT W		27.122	15.082	22.406	1.00 38.38
MOTA	3745	W TAW OWO		33.984	6.935	23.167	1.00 31.70
ATOM	3746	OWO WAT W		48.239	10.877	11.122	1.00 39.32
MOTA	3747	OWO WAT W		39.777	10.123	46.483	1.00 40.48
ATOM	3748	V TAW OWO		15.913	5.068	4.962	1.00 38.55
MOTA	3749	OWO WAT W		8.813	-9.674	40.078	1.00 53.32
ATOM ATOM	3750 3751	V TAW 0WO		47.605 35.602	16.487 3.446	21.063 44.927	1.00 40.23 1.00 39.85
ATOM	3752	OWO WAT V		31.129	-6.169	8.662	1.00 39.85 1.00 41.30
ATOM	3753	OWO WAT		11.427	31.547	10.265	1.00 41.49
ATOM	3754	W TAW OWO		14.396	-1.879	26.658	1.00 36.77
ATOM	3755	OWO WAT W		46.762	18.021	19.152	1.00 46.85
MOTA	3756	W TAW 0WO	1 112	43.398	5.319	2.222	1.00 52.48
MOTA	3757	W TAW 0WO		34.516	20.702	2.758	1.00 45.48
ATOM	3758	W TAW OWO		36.231	-0.262	19.801	1.00 39.23
ATOM	3759	OWO WAT W		36.569	22.976	7.030	1.00 49.73
ATOM	3760 3761	W TAW OWO		22.415	-4.926	4.527	1.00 38.24
ATOM ATOM	3761 3762	W TAW 0WO		4.372 52.348	25.938 17.172	10.233 17.310	1.00 39.24 1.00 34.24
ATOM	3763	OWO WAT W		40.416	21.290	54.111	1.00 34.24
ATOM	3764	OWO WAT W		34.032	14.639	24.790	1.00 40.57
ATOM	3765	OWO WAT W		40.309	20.591	9.258	1.00 42.56
MOTA	3766	W TAW 0WO	1 122	31.232	12.395	27.555	1.00 44.52

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3767 3768 3769 3770 3771 3772 3773 3774 3775 3776 3777 3778 3779 3780 3781	TAW 0WO TAW 0WO TAW 0WO	W 124 W 125 W 126 W 127 W 128 W 129 W 130 W 131 W 133 W 133 W 135 W 136	39.795 5.610 7.529 17.920 14.136 38.574 -4.788 17.081 26.355 29.252 19.871 36.006 22.954 13.207 -3.317	-0.317 2.009 32.075 15.784 21.143 15.873 1.197 7.172 6.784 -12.936 11.775 3.305 -4.481 -6.171 0.489	2.652 11.401 12.842 23.067 25.527 54.803 37.196 44.652 30.899 48.056 5.475 21.918 0.798 24.730 12.332	1.00 44.68 1.00 38.29 1.00 64.16 1.00 43.06 1.00 38.04 1.00 51.81 1.00 45.96 1.00 38.01 1.00 44.15 1.00 35.90 1.00 40.56 1.00 40.56 1.00 50.80 1.00 43.42 1.00 48.64
ATOM ATOM	3782 3783	TAW 0WO		25.629 23.573	12.264 25.238	4.200 35.587	1.00 38.19 1.00 42.16
ATOM	3784		W 140	40.447	10.129	3.302	1.00 42.16
ATOM	3785	OWO WAT		2.625	11.927	45.379	1.00 44.63
ATOM ATOM	3786 3787	TAW 0WO		25.620 4.689	18.252 19.820	-1.548 29.824	1.00 45.28 1.00 39.35
ATOM	3788	TAW 0WO	W 144	-4.941	21.975	25.303	1.00 58.01
ATOM ATOM	3789 3790	TAW 0WO		-0.643 38.573	4.350	26.309	1.00 54.33
ATOM	3791	OWO WAT		18.132	1.533 24.827	1.090 32.593	1.00 44.32 1.00 37.08
ATOM	3792	OWO WAT		20.278	25.946	36.703	1.00 44.49
ATOM ATOM	3793 3794	TAW 0WO		-0.072 16.704	10.577 -5.369	25.625 13.610	1.00 36.84 1.00 53.67
MOTA	3795	TAW 0WO	W 151	25.510	-2.764	29.701	1.00 34.82
ATOM ATOM	3796 3797	TAW 0WO		4.332 40.847	-5.544 $21.215$	25.984 18.492	1.00 65.27 1.00 42.39
ATOM	3798	OWO WAT		16.209	9.997	46.118	1.00 42.39
ATOM	3799	OWO WAT		18.045	2.761	4.686	1.00 42.06
ATOM ATOM	3800 3801	TAW 0WO		29.533 0.620	6.085 22.763	29.934 17.036	1.00 43.67 1.00 43.19
MOTA	3802	OWO WAT	W 158	22.171	14.826	3.381	1.00 39.74
ATOM ATOM	3803 3804	TAW 0WO		26.060 45.733	19.294 17.018	54.077 16.481	1.00 46.68 1.00 30.83
ATOM	3805	TAW OWO		37.760	10.259	30.385	1.00 41.55
ATOM ATOM	3806 3807	TAW 0WO		34.451 26.582	22.116 17.904	34.910 23.043	1.00 41.24 1.00 40.64
ATOM	3808	TAW OWO		42.978	12.211	9.438	1.00 40.54
ATOM ATOM	3809 3810	TAW 0WO		34.042 47.826	19.067 18.320	54.737 16.788	1.00 55.40
ATOM	3811	TAW OWO		2.635	1.607	19.768	1.00 36.84 1.00 40.36
ATOM	3812	TAW OWO		42.706	15.702	51.168	1.00 53.73
ATOM ATOM	3813 3814	TAW 0WO		29.444 0.938	-5.469 0.074	19.727 33.827	1.00 44.18 1.00 39.33
MOTA	3815	OWO WAT	N 171	1.355	15.318	36.571	1.00 41.72
ATOM ATOM	3816 3817	TAW 0WO		35.733 22.025	22.337 -16.840	38.623 54.098	1.00 48.99 1.00 60.26
ATOM	3818	V TAW 0WO	N 174	8.180	19.230	41.714	1.00 50.71
ATOM ATOM	3819 3820	TAW OWO		15.073	10.349	3.405	1.00 41.40
ATOM	3821	TAW 0WO		18.275 26.149	26.866 22.604	47.583 52.505	1.00 43.95 1.00 52.87
MOTA	3822	W TAW OWO	v 178	36.628	10.191	1.537	1.00 43.41
ATOM ATOM	3823 3824	TAW 0WO		-0.744 10.690	-7.200 11.744	35.515 47.602	1.00 58.15 1.00 50.01
ATOM	3825	WAT W	V 181	27.869	-15.330	51.231	1.00 40.75
ATOM ATOM	3826 3827	W TAW 0WO		27.409 33.387	16.705 15.056	57.119 31.663	1.00 47.06 1.00 36.85
MOTA	3828	OWO WAT W	V 184	31.235	21.301	19.350	1.00 46.04
ATOM	3829	WAT WOO		15.569	30.920	6.508	1.00 56.60
ATOM ATOM	3830 3831	W TAW 0WO		44.227 -4.537	10.255 19.107	22.435 8.733	1.00 38.96 1.00 53.62
MOTA	3832	OWO WAT W	V 188	34.122	2.662	52.345	1.00 65.45
ATOM END	3833	V TAW 0WO	v 189	28.450	19.016	27.150	1.00 54.11